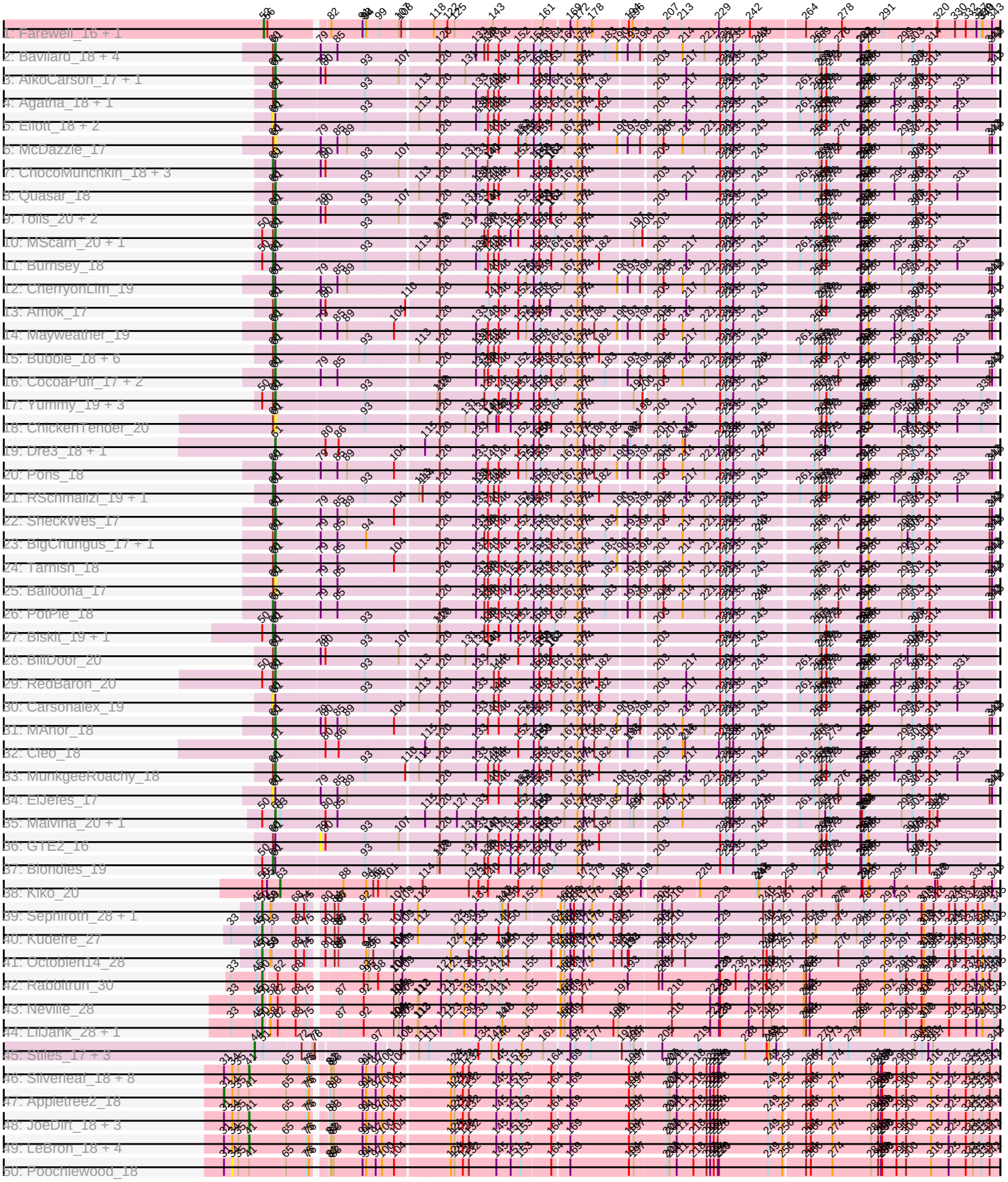
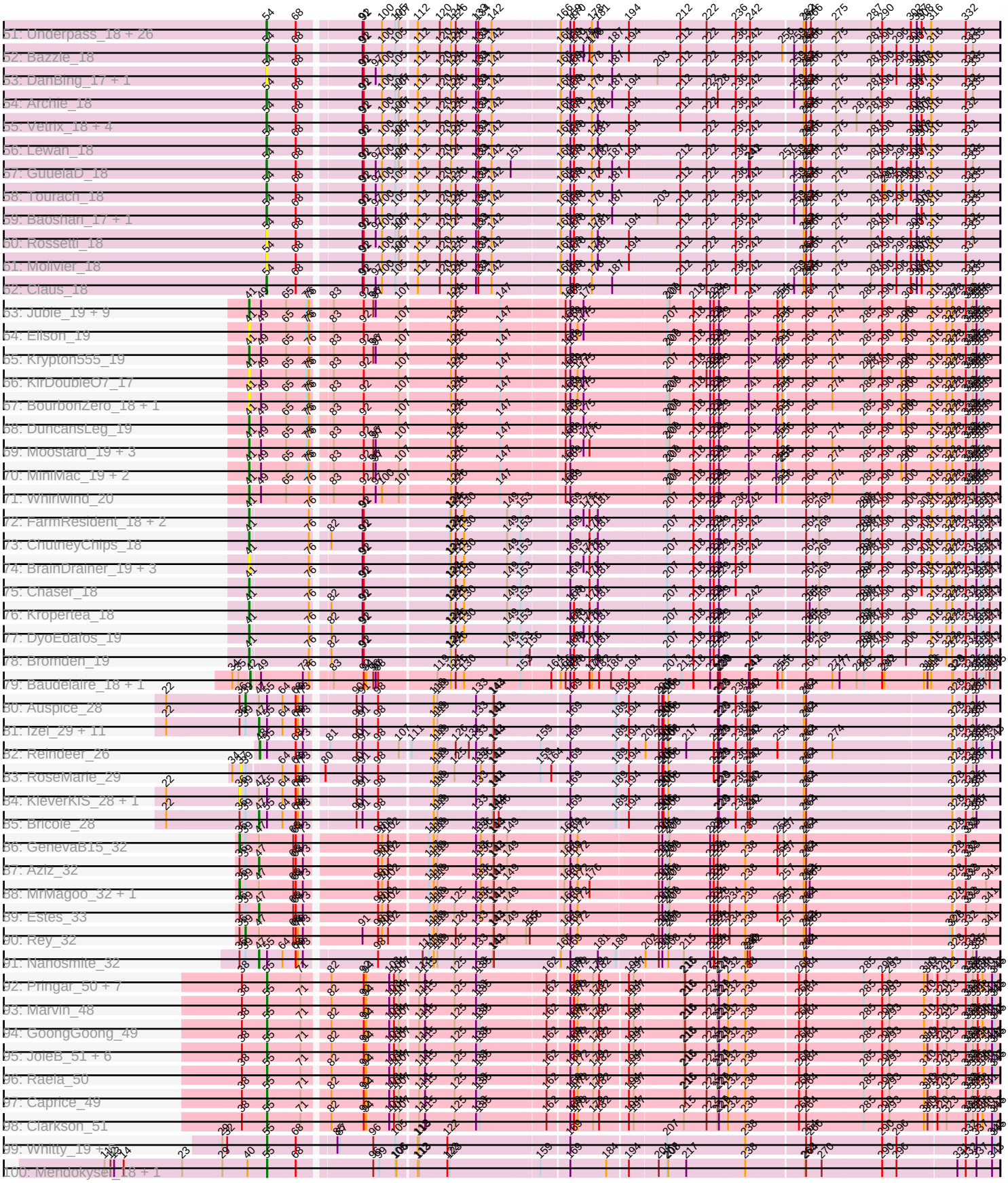
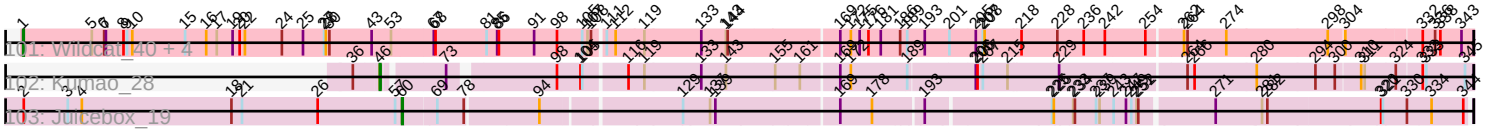
Pham 347223


1: Farewell_16 + 1
2: Bavilard_18 + 4
3: AlkoCarson_17 + 1
4: Agatha_18 + 1
5: Elliott_18 + 2
6: McDazzle_17
7: ChocoMunchkin_18 + 3
8: Quasar_18
9: Tolls_20 + 2
10: MScarn_20 + 1
11: Burnsey_18
12: CherryonLim_19
13: Amok_17
14: Mayweather_19
15: Bubble_18 + 6
16: CocoaPuff_17 + 2
17: Yummy_19 + 3
18: ChickenTender_20
19: Dre3_18 + 1
20: Pons_18
21: RSchmalzl_19 + 1
22: SheckWes_17
23: BigChungus_17 + 1
24: Tarnish_18
25: Balloona_17
26: PotPie_18
27: Biskit_19 + 1
28: BillDoor_20
29: RedBaron_20
30: Carsonalex_19
31: MAnor_18
32: Cleo_18
33: MunkgeeRoachy_18
34: ElJefes_17
35: Malvina_20 + 1
36: GTE2_16
37: Blondies_19
38: Kiko_20
39: Sephiroth_28 + 1
40: Kudeifre_27
41: Octobien14_28
42: Rabbitrun_30
43: Neville_28
44: LilJank_28 + 1
45: Stiles_17 + 3
46: Silverleaf_18 + 8
47: Appletree2_18
48: JoeDirt_18 + 3
49: LeBron_18 + 4
50: Poochiewood_18

Pham 347223


51: Underpass_18 + 26
52: Bazzle_18
53: DanBing_17 + 1
54: Archie_18
55: Vetrix_18 + 4
56: Lewan_18
57: GuuelaD_18
58: Tourach_18
59: Baoshan_17 + 1
60: Rossetti_18
61: Mollvier_18
62: Claus_18
63: Jubie_19 + 9
64: Elison_19
65: Krypton555_19
66: KirDoubleO7_17
67: BourbonZero_18 + 1
68: DuncansLeg_19
69: Moostard_19 + 3
70: MiniMac_19 + 2
71: Whirlwind_20
72: FarmResident_18 + 2
73: ChutneyChips_18
74: BrainDrainer_19 + 3
75: Chaser_18
76: Kropenea_18
77: DyoEdaros_19
78: Bromden_19
79: Baudelaire_18 + 1
80: Auspice_28
81: Izel_29 + 11
82: Reindeer_26
83: RoseMarie_29
84: KleverKIS_28 + 1
85: Bricole_28
86: GenevaB15_32
87: Aziz_32
88: MrMagoo_32 + 1
89: Estes_33
90: Rey_32
91: Nanosmite_32
92: Pringar_50 + 7
93: Marvin_48
94: GoongGoong_49
95: JolieB_51 + 6
96: Raela_50
97: Caprice_49
98: Clarkson_51
99: Whitty_19 + 2
100: Mendokyseli_18 + 1

Pham 347223



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 347223 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347223 has 243 members, 43 are drafts.

Phages represented in each track:
• Track 1 : Farewell_16, Sparky_16
• Track 2 : Bavilard_18, Elinal_19, Yucky_18, KayGee_18, Lauer_17
• Track 3 : AikoCarson_17, Emalyn_17
• Track 4 : Agatha_18, Cozz_18
• Track 5 : Eliott_18, PsychoKiller_18, RADical_19
• Track 6 : McDazzle_17
• Track 7 : ChocoMunchkin_18, AndPeggy_17, CaramelLatte_18, CanesSauce_18
• Track 8 : Quasar_18
• Track 9 : Tolls_20, SteamedHams_20, Yarn_17
• Track 10 : MScarn_20, Buttrmlkdreams_18
• Track 11 : Burnsey_18
• Track 12 : CherryonLim_19
• Track 13 : Amok_17
• Track 14 : Mayweather_19
• Track 15 : Bubble_18, GoldHunter_18, Nina_19, Typhonomachy_18, Sopespian_18, Axym_18, Socotra_19
• Track 16 : CocoaPuff_17, Vine_19, SummitAcademy_17
• Track 17 : Yummy_19, SweatNTears_20, Troje_18, Horseradish_19
• Track 18 : ChickenTender_20
• Track 19 : Dre3_18, Gibbous_18
• Track 20 : Pons_18
• Track 21 : RSchmailzl_19, Starburst_19
• Track 22 : SheckWes_17
• Track 23 : BigChungus_17, Feastonyeet_17
• Track 24 : Tarnish_18
• Track 25 : Balloona_17
• Track 26 : PotPie_18
• Track 27 : Biskit_19, SketchMex_17
• Track 28 : BillDoor_20
• Track 29 : RedBaron_20
• Track 30 : Carsonalex_19
• Track 31 : MAnor_18
• Track 32 : Cleo_18
• Track 33 : MunkgeeRoachy_18
• Track 34 : ElJefes_17
• Track 35 : Malvina_20, HippoPololi_20
• Track 36 : GTE2_16

• Track 37 : Blondies_19
• Track 38 : Kiko_20
• Track 39 : Sephiroth_28, Syleon_28
• Track 40 : Kudefre_27
• Track 41 : Octobien14_28
• Track 42 : Rabbitrun_30
• Track 43 : Neville_28
• Track 44 : LilJank_28, Trax_28
• Track 45 : Stiles_17, Bran_17, StAB_17, Adelaide_17
• Track 46 : Silverleaf_18, AvadaKedavra_18, UPIE_18, Acquire49_18, Rose5_18, Tyson_18, Halena_18, MAckerman_18, Wyatt2_18
• Track 47 : Appletree2_18
• Track 48 : JoeDirt_18, Enceladus_18, DirkDirk_18, OhShagHennessy_18
• Track 49 : LeBron_18, CicholasNage_18, Calm_18, Wamburgrxpress_18, Zaria_18
• Track 50 : Poochiewood_18
• Track 51 : Underpass_18, Loadrie_18, OverPar_18, BobsGarage_18, BigCheese_18, Hiraya_18, Faith1_18, MkaliMitinis3_18, Miley16_18, DrSeegs_18, Wigglewiggle_18, Kahlid_18, Hafay_18, Sarshaun_18, Nicholasp3_18, Soap141_18, ChengKai98_18, SoJulia_18, Gabriela_18, Winky_18, Itos_18, Breezona_18, Finemlucis_18, Gardann_18, Lynnae_18, Wilder_18, Netyap_18
• Track 52 : Bazzle_18
• Track 53 : DanBing_17, DHan_18
• Track 54 : Archie_18
• Track 55 : Vetrix_18, Zakai_18, Crossroads_18, LilDestine_18, Rumpelstiltskin_18
• Track 56 : Lewan_18
• Track 57 : GuuelaD_18
• Track 58 : Tourach_18
• Track 59 : Baoshan_17, ZhongYanYuan_17
• Track 60 : Rossetti_18
• Track 61 : Molivier_18
• Track 62 : Claus_18
• Track 63 : Jubie_19, TriFive_19, Nicholas_19, Jobypre_19, Kingsolomon_19, MsGreen_19, Red305_19, Snenia_19, Lumos_19, Clautastrophe_19
• Track 64 : Ellson_19
• Track 65 : Krypton555_19
• Track 66 : KirDoubleO7_17
• Track 67 : BourbonZero_18, LiyuLake_19
• Track 68 : DuncansLeg_19
• Track 69 : Moostard_19, Finnry_19, Bellis_19, Samty_19
• Track 70 : MiniMac_19, Lolly9_19, MiniLon_19
• Track 71 : Whirlwind_20
• Track 72 : FarmResident_18, Douge_18, Quby_18
• Track 73 : ChutneyChips_18
• Track 74 : BrainDrainer_19, Douzhi_18, Sheng711_18, PYPDinur_18
• Track 75 : Chaser_18
• Track 76 : Kropertea_18
• Track 77 : DyoEdafos_19
• Track 78 : Bromden_19
• Track 79 : Baudelaire_18, Aegeus_18
• Track 80 : Auspice_28
• Track 81 : Izel_29, TyDawg_28, LilhomieP_27, IPhane7_28, Dulcita_29, Glaske16_29, Bongo_28, Skinny_29, SlimJimmy_27, PegLeg_28, FreakyGoo_29, Diminimus_29

• Track 82 : Reindeer_26
• Track 83 : RoseMarie_29
• Track 84 : KleverKiS_28, TpudiCK_29
• Track 85 : Bricole_28
• Track 86 : GenevaB15_32
• Track 87 : Aziz_32
• Track 88 : MrMagoo_32, GardenSalsa_32
• Track 89 : Estes_33
• Track 90 : Rey_32
• Track 91 : Nanosmite_32
• Track 92 : Pringar_50, Blackbeetle_50, Huphlepuff_52, VasuNzinga_50, Beelzebub_54, LittleLaf_50, Poise_50, Lilbit_49
• Track 93 : Marvin_48
• Track 94 : GoongGoong_49
• Track 95 : JoieB_51, FeliMaine_52, Gattaca_49, MosMoris_48, Tesla_49, Corazon_48, RedRaider77_50
• Track 96 : Raela_50
• Track 97 : Caprice_49
• Track 98 : Clarkson_51
• Track 99 : Whitty_19, RonRayGun_19, Bernal13_19, Nairb_19, ZenTime222_19, Ibrahim_19
• Track 100 : Mendokysei_18, Nette_19
• Track 101 : Wildcat_40, Azrael100_39, MaryV_40, Cosmo_40, EniyanLRS_37
• Track 102 : Kumao_28
• Track 103 : Juicebox_19

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 41, it was called in 43 of the 200 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acquire49_18, AvadaKedavra_18, Bellis_19, BourbonZero_18, BrainDrainer_19, Bromden_19, Calm_18, Chaser_18, ChutneyChips_18, CicholasNage_18, Clautastrophe_19, DirkDirk_18, Douge_18, Douzhi_18, DuncansLeg_19, DyoEdafos_19, Ellson_19, Enceladus_18, FarmResident_18, Finnry_19, Halena_18, Jobypre_19, JoeDirt_18, Jubie_19, Kingsolomon_19, KirDoubleO7_17, Kropertea_18, Krypton555_19, LeBron_18, LiyuLake_19, Lolly9_19, Lumos_19, MAckerman_18, MiniLon_19, MiniMac_19, Moostard_19, MsGreen_19, Nicholas_19, OhShagHennessy_18, PYPDinur_18, Quby_18, Red305_19, Rose5_18, Samty_19, Sheng711_18, Silverleaf_18, Snenia_19, TriFive_19, Tyson_18, UPIE_18, Wamburgrxpress_18, Whirlwind_20, Wyatt2_18, Zaria_18,

Genes that have the "Most Annotated" start but do not call it:
• Appletree2_18, Poochiewood_18,

Genes that do not have the "Most Annotated" start:
• Adelaide_17, Aegeus_18, Agatha_18, AikoCarson_17, Amok_17, AndPeggy_17, Archie_18, Auspice_28, Axym_18, Aziz_32, Azrael100_39, Balloona_17, Baoshan_17, Baudelaire_18, Bavilard_18, Bazzle_18, Beelzebub_54, Bernal13_19,

BigCheese_18, BigChungus_17, BillDoor_20, Biskit_19, Blackbeetle_50, Blondies_19, BobsGarage_18, Bongo_28, Bran_17, Breezona_18, Bricole_28, Bubble_18, Burnsey_18, Buttrmlkdreams_18, CanesSauce_18, Caprice_49, CaramelLatte_18, Carsonalex_19, ChengKai98_18, CherryonLim_19, ChickenTender_20, ChocoMunchkin_18, Clarkson_51, Claus_18, Cleo_18, CocoaPuff_17, Corazon_48, Cosmo_40, Cozz_18, Crossroads_18, DHan_18, DanBing_17, Diminimus_29, DrSeegs_18, Dre3_18, Dulcita_29, ElJefes_17, Elinal_19, Eliott_18, Emalyn_17, EniyanLRS_37, Estes_33, Faith1_18, Farewell_16, Feastonyeet_17, FeliMaine_52, Finemlucis_18, FreakyGoo_29, GTE2_16, Gabriela_18, Gardann_18, GardenSalsa_32, Gattaca_49, GenevaB15_32, Gibbous_18, Glaske16_29, GoldHunter_18, GoongGoong_49, GuuelaD_18, Hafay_18, HippoPololi_20, Hiraya_18, Horseradish_19, Huphlepuff_52, IPhane7_28, Ibrahim_19, Itos_18, Izel_29, JoieB_51, Juicebox_19, Kahlid_18, KayGee_18, Kiko_20, KleverKiS_28, Kudefre_27, Kumao_28, Lauer_17, Lewan_18, LilDestine_18, LilJank_28, Lilbit_49, LilhomieP_27, LittleLaf_50, Loadrie_18, Lynnae_18, MAnor_18, MScarn_20, Malvina_20, Marvin_48, MaryV_40, Mayweather_19, McDazzle_17, Mendokysei_18, Miley16_18, MkaliMitinis3_18, Molivier_18, MosMoris_48, MrMagoo_32, MunkgeeRoachy_18, Nairb_19, Nanosmite_32, Nette_19, Netyap_18, Neville_28, Nicholasp3_18, Nina_19, Octobien14_28, OverPar_18, PegLeg_28, Poise_50, Pons_18, PotPie_18, Pringar_50, PsychoKiller_18, Quasar_18, RADical_19, RSchmailzl_19, Rabbitrun_30, Raela_50, RedBaron_20, RedRaider77_50, Reindeer_26, Rey_32, RonRayGun_19, RoseMarie_29, Rossetti_18, Rumpelstiltskin_18, Sarshaun_18, Sephiroth_28, SheckWes_17, SketchMex_17, Skinny_29, SlimJimmy_27, SoJulia_18, Soap141_18, Socotra_19, Sopespian_18, Sparky_16, StAB_17, Starburst_19, SteamedHams_20, Stiles_17, SummitAcademy_17, SweatNTears_20, Syleon_28, Tarnish_18, Tesla_49, Tolls_20, Tourach_18, TpudiCK_29, Trax_28, Troje_18, TyDawg_28, Typhonomachy_18, Underpass_18, VasuNzinga_50, Vetrix_18, Vine_19, Whitty_19, Wigglewiggle_18, Wildcat_40, Wilder_18, Winky_18, Yarn_17, Yucky_18, Yummy_19, Zakai_18, ZenTime222_19, ZhongYanYuan_17,

Summary by start number:

Start 1:
• Found in 5 of 243 (2.1%) of genes in pham
• Manual Annotations of this start: 5 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_39 (V), Cosmo_40 (V), EniyanLRS_37 (V), MaryV_40 (V), Wildcat_40 (V),

Start 31:
• Found in 20 of 243 (8.2%) of genes in pham
• Manual Annotations of this start: 1 of 200
• Called 5.0% of time when present
• Phage (with cluster) where this start called: Appletree2_18 (L1),

Start 34:
• Found in 23 of 243 (9.5%) of genes in pham
• No Manual Annotations of this start.
• Called 4.3% of time when present
• Phage (with cluster) where this start called: Poochiewood_18 (L1),

Start 36:

• Found in 24 of 243 (9.9%) of genes in pham
• Manual Annotations of this start: 3 of 200
• Called 20.8% of time when present
• Phage (with cluster) where this start called: GardenSalsa_32 (M2), GenevaB15_32 (M2), KleverKiS_28 (M1), MrMagoo_32 (M2), TpudiCK_29 (M1),

Start 37:
• Found in 1 of 243 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RoseMarie_29 (M1),

Start 39:
• Found in 24 of 243 (9.9%) of genes in pham
• Manual Annotations of this start: 2 of 200
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Auspice_28 (M1), Rey_32 (M2),

Start 41:
• Found in 56 of 243 (23.0%) of genes in pham
• Manual Annotations of this start: 43 of 200
• Called 96.4% of time when present
• Phage (with cluster) where this start called: Acquire49_18 (L1), AvadaKedavra_18 (L1), Bellis_19 (L3), BourbonZero_18 (L3), BrainDrainer_19 (L4), Bromden_19 (L4), Calm_18 (L1), Chaser_18 (L4), ChutneyChips_18 (L4), CicholasNage_18 (L1), Clautastrophe_19 (L3), DirkDirk_18 (L1), Douge_18 (L4), Douzhi_18 (L4), DuncansLeg_19 (L3), DyoEdafos_19 (L4), Ellson_19 (L3), Enceladus_18 (L1), FarmResident_18 (L4), Finnry_19 (L3), Halena_18 (L1), Jobypre_19 (L3), JoeDirt_18 (L1), Jubie_19 (L3), Kingsolomon_19 (L3), KirDoubleO7_17 (L3), Kropertea_18 (L4), Krypton555_19 (L3), LeBron_18 (L1), LiyuLake_19 (L3), Lolly9_19 (L3), Lumos_19 (L3), MAckerman_18 (L1), MiniLon_19 (L3), MiniMac_19 (L3), Moostard_19 (L3), MsGreen_19 (L3), Nicholas_19 (L3), OhShagHennessy_18 (L1), PYPDinur_18 (L4), Quby_18 (L4), Red305_19 (L3), Rose5_18 (L1), Samty_19 (L3), Sheng711_18 (L4), Silverleaf_18 (L1), Snenia_19 (L3), TriFive_19 (L3), Tyson_18 (L1), UPIE_18 (L1), Wamburgrxpress_18 (L1), Whirlwind_20 (L3), Wyatt2_18 (L1), Zaria_18 (L1),

Start 42:
• Found in 2 of 243 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aegeus_18 (L5), Baudelaire_18 (L5),

Start 44:
• Found in 4 of 243 (1.6%) of genes in pham
• Manual Annotations of this start: 4 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adelaide_17 (EP), Bran_17 (EP), StAB_17 (EP), Stiles_17 (EP),

Start 46:
• Found in 1 of 243 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 200
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Kumao_28 (singleton),

Start 47:
• Found in 23 of 243 (9.5%) of genes in pham
• Manual Annotations of this start: 16 of 200
• Called 69.6% of time when present
• Phage (with cluster) where this start called: Aziz_32 (M2), Bongo_28 (M1), Bricole_28 (M1), Diminimus_29 (M1), Dulcita_29 (M1), Estes_33 (M2), FreakyGoo_29 (M1), Glaske16_29 (M1), IPhane7_28 (M1), Izel_29 (M1), LilhomieP_27 (M1), Nanosmite_32 (M3), PegLeg_28 (M1), Skinny_29 (M1), SlimJimmy_27 (M1), TyDawg_28 (M1),

Start 48:
• Found in 1 of 243 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reindeer_26 (M1),

Start 50:
• Found in 22 of 243 (9.1%) of genes in pham
• Manual Annotations of this start: 8 of 200
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Kudefre_27 (DU1), LilJank_28 (DU2), Neville_28 (DU2), Octobien14_28 (DU1), Rabbitrun_30 (DU2), Sephiroth_28 (DU1), Syleon_28 (DU1), Trax_28 (DU2),

Start 52:
• Found in 2 of 243 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_16 (AF), Sparky_16 (AF),

Start 54:
• Found in 44 of 243 (18.1%) of genes in pham
• Manual Annotations of this start: 32 of 200
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archie_18 (L2), Baoshan_17 (L2), Bazzle_18 (L2), BigCheese_18 (L2), BobsGarage_18 (L2), Breezona_18 (L2), ChengKai98_18 (L2), Claus_18 (L2), Crossroads_18 (L2), DHan_18 (L2), DanBing_17 (L2), DrSeegs_18 (L2), Faith1_18 (L2), Finemlucis_18 (L2), Gabriela_18 (L2), Gardann_18 (L2), GuuelaD_18 (L2), Hafay_18 (L2), Hiraya_18 (L2), Itos_18 (L2), Kahlid_18 (L2), Lewan_18 (L2), LilDestine_18 (L2), Loadrie_18 (L2), Lynnae_18 (L2), Miley16_18 (L2), MkaliMitinis3_18 (L2), Molivier_18 (L2), Netyap_18 (L2), Nicholasp3_18 (L2), OverPar_18 (L2), Rossetti_18 (L2), Rumpelstiltskin_18 (L2), Sarshaun_18 (L2), SoJulia_18 (L2), Soap141_18 (L2), Tourach_18 (L2), Underpass_18 (L2), Vetrix_18 (L2), Wigglewiggle_18 (L2), Wilder_18 (L2), Winky_18 (L2), Zakai_18 (L2), ZhongYanYuan_17 (L2),

Start 55:
• Found in 47 of 243 (19.3%) of genes in pham
• Manual Annotations of this start: 27 of 200
• Called 59.6% of time when present

• Phage (with cluster) where this start called: Beelzebub_54 (S), Bernal13_19 (T), Blackbeetle_50 (S), Caprice_49 (S), Clarkson_51 (S), Corazon_48 (S), FeliMaine_52 (S), Gattaca_49 (S), GoongGoong_49 (S), Huphlepuff_52 (S), Ibrahim_19 (T), JoieB_51 (S), Lilbit_49 (S), LittleLaf_50 (S), Marvin_48 (S), Mendokysei_18 (T), MosMoris_48 (S), Nairb_19 (T), Nette_19 (T), Poise_50 (S), Pringar_50 (S), Raela_50 (S), RedRaider77_50 (S), RonRayGun_19 (T), Tesla_49 (S), VasuNzinga_50 (S), Whitty_19 (T), ZenTime222_19 (T),

Start 60:
• Found in 62 of 243 (25.5%) of genes in pham
• Manual Annotations of this start: 10 of 200
• Called 30.6% of time when present
• Phage (with cluster) where this start called: AndPeggy_17 (CT), Biskit_19 (CT), Blondies_19 (CT), Burnsey_18 (CT), CanesSauce_18 (CT), CaramelLatte_18 (CT), Carsonalex_19 (CT), CherryonLim_19 (CT), ChocoMunchkin_18 (CT), ElJefes_17 (CT), Eliott_18 (CT), Juicebox_19 (singleton), Pons_18 (CT), PotPie_18 (CT), PsychoKiller_18 (CT), RADical_19 (CT), RSchmailzl_19 (CT), SketchMex_17 (CT), Starburst_19 (CT),

Start 61:
• Found in 66 of 243 (27.2%) of genes in pham
• Manual Annotations of this start: 42 of 200
• Called 71.2% of time when present
• Phage (with cluster) where this start called: Agatha_18 (CT), AikoCarson_17 (CT), Amok_17 (CT), Axym_18 (CT), Balloona_17 (CT), Bavilard_18 (CT), BigChungus_17 (CT), BillDoor_20 (CT), Bubble_18 (CT), Buttrmlkdreams_18 (CT), ChickenTender_20 (CT), Cleo_18 (CT), CocoaPuff_17 (CT), Cozz_18 (CT), Dre3_18 (CT), Elinal_19 (CT), Emalyn_17 (CT), Feastonyeet_17 (CT), Gibbous_18 (CT), GoldHunter_18 (CT), HippoPololi_20 (CT), Horseradish_19 (CT), KayGee_18 (CT), Lauer_17 (CT), MAnor_18 (CT), MScarn_20 (CT), Malvina_20 (CT), Mayweather_19 (CT), McDazzle_17 (CT), MunkgeeRoachy_18 (CT), Nina_19 (CT), Quasar_18 (CT), RedBaron_20 (CT), SheckWes_17 (CT), Socotra_19 (CT), Sopespian_18 (CT), SteamedHams_20 (CT), SummitAcademy_17 (CT), SweatNTears_20 (CT), Tarnish_18 (CT), Tolls_20 (CT), Troje_18 (CT), Typhonomachy_18 (CT), Vine_19 (CT), Yarn_17 (CT), Yucky_18 (CT), Yummy_19 (CT),

Start 63:
• Found in 3 of 243 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 200
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Kiko_20 (DB),

Start 79:
• Found in 32 of 243 (13.2%) of genes in pham
• No Manual Annotations of this start.
• Called 3.1% of time when present
• Phage (with cluster) where this start called: GTE2_16 (CT),

Summary by clusters:

There are 18 clusters represented in this pham: singleton, AF, L1, DB, L4, T, DU1, S, L5, L2, L3, M3, V, M1, DU2, M2, EP, CT,

Info for manual annotations of cluster AF:
•Start number 52 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster CT:
•Start number 60 was manually annotated 9 times for cluster CT.
•Start number 61 was manually annotated 42 times for cluster CT.

Info for manual annotations of cluster DB:
•Start number 63 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DU1:
•Start number 50 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 50 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster EP:
•Start number 44 was manually annotated 4 times for cluster EP.

Info for manual annotations of cluster L1:
•Start number 31 was manually annotated 1 time for cluster L1.
•Start number 41 was manually annotated 18 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 54 was manually annotated 32 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 41 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 41 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 42 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:
•Start number 39 was manually annotated 1 time for cluster M1.
•Start number 47 was manually annotated 13 times for cluster M1.
•Start number 48 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster M2:
•Start number 36 was manually annotated 3 times for cluster M2.
•Start number 39 was manually annotated 1 time for cluster M2.
•Start number 47 was manually annotated 2 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 47 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster S:
•Start number 55 was manually annotated 20 times for cluster S.

Info for manual annotations of cluster T:
•Start number 55 was manually annotated 7 times for cluster T.

Info for manual annotations of cluster V:
•Start number 1 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Acquire49_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for Acquire49_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: Adelaide_17 Start: 16318, Stop: 18015, Start Num: 44
Candidate Starts for Adelaide_17:
(Start: 44 @16318 has 4 MA's), (51, 16339), (72, 16423), (77, 16450), (78, 16456), (97, 16588), (108, 16639), (113, 16672), (117, 16696), (134, 16816), (142, 16849), (146, 16867), (154, 16921), (161, 16966), (169, 17023), (171, 17035), (177, 17074), (192, 17134), (195, 17155), (197, 17164), (205, 17221), (219, 17311), (238, 17419), (248, 17473), (250, 17479), (253, 17497), (270, 17593), (273, 17614), (279, 17659), (305, 17818), (309, 17833), (313, 17848), (317, 17860), (343, 18004),

Gene: Aegeus_18 Start: 16306, Stop: 18069, Start Num: 42
Candidate Starts for Aegeus_18:
(34, 16267), (35, 16282), (Start: 42 @16306 has 2 MA's), (49, 16327), (73, 16429), (76, 16444), (83, 16480), (92, 16555), (94, 16561), (96, 16579), (97, 16585), (98, 16591), (119, 16723), (124, 16756), (126, 16768), (130, 16789), (153, 16927), (164, 16996), (166, 17011), (168, 17023), (169, 17035), (170, 17044), (176, 17083), (178, 17089), (182, 17107), (186, 17137), (194, 17179), (207, 17266), (213, 17302), (218, 17329), (223, 17371), (228, 17389), (229, 17392), (230, 17395), (241, 17467), (242, 17470), (254, 17536), (256, 17548), (264, 17596), (274, 17662), (277, 17680), (281, 17722), (285, 17740), (290, 17785), (292, 17791), (310, 17887), (312, 17896), (316, 17905), (328, 17953), (329, 17956), (332, 17983), (335, 18001), (337, 18010), (339, 18022), (341, 18034), (342, 18043), (345, 18055),

Gene: Agatha_18 Start: 15732, Stop: 17429, Start Num: 61
Candidate Starts for Agatha_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: AikoCarson_17 Start: 15037, Stop: 16731, Start Num: 61
Candidate Starts for AikoCarson_17:
(Start: 60 @15034 has 10 MA's), (Start: 61 @15037 has 42 MA's), (79, 15136), (80, 15148), (93, 15244), (107, 15328), (120, 15418), (131, 15478), (146, 15562), (152, 15607), (157, 15640), (158, 15652), (163, 15676), (172, 15745), (174, 15757), (203, 15922), (217, 15994), (230, 16072), (231,

16087), (235, 16105), (243, 16162), (269, 16303), (270, 16309), (272, 16321), (273, 16330), (282, 16402), (283, 16405), (285, 16411), (286, 16423), (303, 16528), (306, 16537), (314, 16570), (343, 16723),

Gene: Amok_17 Start: 15034, Stop: 16728, Start Num: 61
Candidate Starts for Amok_17:
(Start: 60 @15031 has 10 MA's), (Start: 61 @15034 has 42 MA's), (79, 15133), (80, 15145), (110, 15340), (120, 15415), (141, 15535), (146, 15559), (152, 15604), (157, 15637), (158, 15649), (163, 15673), (172, 15742), (174, 15754), (203, 15919), (217, 15991), (230, 16069), (231, 16084), (235, 16102), (243, 16159), (269, 16300), (270, 16306), (272, 16318), (273, 16327), (282, 16399), (283, 16402), (285, 16408), (286, 16420), (303, 16525), (306, 16534), (314, 16567), (343, 16720),

Gene: AndPeggy_17 Start: 15394, Stop: 17094, Start Num: 60
Candidate Starts for AndPeggy_17:
(Start: 60 @15394 has 10 MA's), (Start: 61 @15397 has 42 MA's), (79, 15499), (80, 15511), (93, 15607), (107, 15691), (120, 15781), (131, 15841), (133, 15868), (140, 15898), (141, 15901), (152, 15970), (157, 16003), (158, 16015), (159, 16018), (163, 16039), (164, 16042), (172, 16108), (174, 16120), (203, 16285), (230, 16435), (231, 16450), (235, 16468), (243, 16525), (269, 16666), (270, 16672), (272, 16684), (273, 16693), (282, 16765), (283, 16768), (285, 16774), (286, 16786), (303, 16891), (306, 16900), (314, 16933),

Gene: Appletree2_18 Start: 16636, Stop: 18468, Start Num: 31
Candidate Starts for Appletree2_18:
(Start: 31 @16636 has 1 MA's), (34, 16657), (35, 16672), (Start: 41 @16699 has 43 MA's), (65, 16792), (75, 16840), (76, 16846), (81, 16873), (83, 16882), (91, 16954), (94, 16963), (97, 16987), (100, 17002), (104, 17032), (124, 17158), (125, 17167), (128, 17188), (132, 17203), (145, 17272), (151, 17308), (153, 17329), (164, 17398), (169, 17437), (194, 17575), (197, 17587), (207, 17662), (209, 17668), (211, 17686), (218, 17725), (222, 17758), (223, 17767), (224, 17776), (228, 17785), (249, 17908), (256, 17944), (264, 17992), (266, 18004), (274, 18058), (287, 18154), (288, 18172), (289, 18178), (290, 18181), (296, 18214), (300, 18238), (316, 18301), (325, 18343), (332, 18382), (335, 18400), (339, 18421), (342, 18442),

Gene: Archie_18 Start: 17205, Stop: 18938, Start Num: 54
Candidate Starts for Archie_18:
(Start: 54 @17205 has 32 MA's), (68, 17274), (91, 17415), (92, 17418), (100, 17463), (105, 17496), (107, 17505), (112, 17541), (120, 17595), (124, 17622), (126, 17634), (133, 17685), (134, 17691), (142, 17724), (166, 17877), (169, 17901), (170, 17910), (178, 17955), (187, 18006), (194, 18048), (212, 18168), (222, 18231), (228, 18258), (236, 18303), (242, 18339), (259, 18438), (262, 18459), (264, 18465), (266, 18477), (275, 18540), (287, 18627), (290, 18654), (302, 18723), (307, 18738), (316, 18774), (332, 18852), (335, 18870),

Gene: Auspice_28 Start: 22341, Stop: 24104, Start Num: 39
Candidate Starts for Auspice_28:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: AvadaKedavra_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for AvadaKedavra_18:

(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: Axym_18 Start: 15732, Stop: 17429, Start Num: 61
Candidate Starts for Axym_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Aziz_32 Start: 22957, Stop: 24696, Start Num: 47
Candidate Starts for Aziz_32:
(Start: 36 @22915 has 3 MA's), (Start: 39 @22930 has 2 MA's), (Start: 47 @22957 has 16 MA's), (66, 23035), (68, 23041), (73, 23059), (98, 23221), (100, 23230), (102, 23245), (117, 23332), (118, 23344), (119, 23353), (133, 23449), (136, 23461), (143, 23491), (144, 23494), (149, 23527), (167, 23656), (169, 23671), (172, 23689), (204, 23881), (205, 23890), (207, 23902), (209, 23908), (223, 24007), (224, 24016), (228, 24025), (238, 24094), (254, 24172), (257, 24187), (262, 24226), (264, 24232), (328, 24586), (332, 24613), (333, 24619),

Gene: Azrael100_39 Start: 25297, Stop: 27681, Start Num: 1
Candidate Starts for Azrael100_39:
(Start: 1 @25297 has 5 MA's), (5, 25414), (6, 25435), (7, 25438), (8, 25468), (9, 25474), (10, 25483), (15, 25573), (16, 25609), (17, 25627), (19, 25654), (20, 25666), (22, 25675), (24, 25738), (25, 25774), (27, 25810), (28, 25813), (30, 25819), (43, 25891), (53, 25921), (67, 25990), (68, 25993), (81, 26080), (85, 26098), (86, 26101), (91, 26161), (98, 26200), (105, 26242), (107, 26251), (108, 26257), (111, 26272), (112, 26287), (119, 26335), (133, 26431), (143, 26473), (144, 26476), (169, 26653), (172, 26671), (175, 26686), (176, 26701), (181, 26722), (186, 26755), (189, 26764), (193, 26794), (201, 26833), (205, 26875), (207, 26887), (208, 26890), (218, 26950), (228, 27010), (236, 27055), (242, 27091), (254, 27157), (262, 27211), (264, 27217), (274, 27283), (298, 27454), (304, 27478), (332, 27598), (336, 27619), (338, 27628), (343, 27664),

Gene: Balloona_17 Start: 15421, Stop: 17115, Start Num: 61
Candidate Starts for Balloona_17:
(Start: 60 @15418 has 10 MA's), (Start: 61 @15421 has 42 MA's), (79, 15520), (85, 15562), (120, 15802), (133, 15889), (138, 15910), (140, 15919), (146, 15946), (151, 15976), (152, 15991), (157, 16024), (159, 16039), (164, 16063), (167, 16096), (172, 16129), (174, 16141), (183, 16198), (193, 16246), (198, 16276), (203, 16306), (206, 16321), (214, 16369), (221, 16420), (230, 16456), (231, 16471), (235, 16489), (243, 16546), (267, 16675), (269, 16687), (276, 16735), (282, 16786), (283, 16789), (286, 16807), (299, 16885), (303, 16912), (314, 16954), (342, 17101), (343, 17107),

Gene: Baoshan_17 Start: 16814, Stop: 18547, Start Num: 54
Candidate Starts for Baoshan_17:
(Start: 54 @16814 has 32 MA's), (68, 16883), (91, 17024), (92, 17027), (97, 17057), (100, 17072), (105, 17105), (112, 17150), (120, 17204), (124, 17231), (126, 17243), (133, 17294), (134, 17300), (142, 17333), (166, 17486), (169, 17510), (170, 17519), (178, 17564), (187, 17615), (203, 17720),

(212, 17777), (222, 17840), (236, 17912), (242, 17948), (259, 18047), (262, 18068), (264, 18074), (266, 18086), (275, 18149), (287, 18236), (290, 18263), (296, 18296), (307, 18347), (308, 18359), (316, 18383), (332, 18461), (335, 18479),

Gene: Baudelaire_18 Start: 16306, Stop: 18069, Start Num: 42
Candidate Starts for Baudelaire_18:
(34, 16267), (35, 16282), (Start: 42 @16306 has 2 MA's), (49, 16327), (73, 16429), (76, 16444), (83, 16480), (92, 16555), (94, 16561), (96, 16579), (97, 16585), (98, 16591), (119, 16723), (124, 16756), (126, 16768), (130, 16789), (153, 16927), (164, 16996), (166, 17011), (168, 17023), (169, 17035), (170, 17044), (176, 17083), (178, 17089), (182, 17107), (186, 17137), (194, 17179), (207, 17266), (213, 17302), (218, 17329), (223, 17371), (228, 17389), (229, 17392), (230, 17395), (241, 17467), (242, 17470), (254, 17536), (256, 17548), (264, 17596), (274, 17662), (277, 17680), (281, 17722), (285, 17740), (290, 17785), (292, 17791), (310, 17887), (312, 17896), (316, 17905), (328, 17953), (329, 17956), (332, 17983), (335, 18001), (337, 18010), (339, 18022), (341, 18034), (342, 18043), (345, 18055),

Gene: Bavilard_18 Start: 16207, Stop: 17901, Start Num: 61
Candidate Starts for Bavilard_18:
(Start: 60 @16204 has 10 MA's), (Start: 61 @16207 has 42 MA's), (79, 16306), (85, 16348), (120, 16588), (133, 16675), (138, 16696), (140, 16705), (146, 16732), (152, 16777), (157, 16810), (159, 16825), (164, 16849), (167, 16882), (172, 16915), (174, 16927), (183, 16984), (190, 17014), (193, 17032), (198, 17062), (203, 17092), (214, 17155), (221, 17206), (230, 17242), (231, 17257), (235, 17275), (243, 17332), (245, 17341), (267, 17461), (269, 17473), (276, 17521), (282, 17572), (283, 17575), (286, 17593), (299, 17671), (303, 17698), (314, 17740), (342, 17887), (343, 17893),

Gene: Bazzle_18 Start: 16954, Stop: 18687, Start Num: 54
Candidate Starts for Bazzle_18:
(Start: 54 @16954 has 32 MA's), (68, 17023), (91, 17164), (92, 17167), (100, 17212), (105, 17245), (112, 17290), (120, 17344), (124, 17371), (126, 17383), (133, 17434), (134, 17440), (142, 17473), (166, 17626), (169, 17650), (170, 17659), (175, 17683), (176, 17698), (178, 17704), (187, 17755), (194, 17797), (212, 17917), (222, 17980), (236, 18052), (242, 18088), (256, 18166), (259, 18187), (262, 18208), (264, 18214), (266, 18226), (275, 18289), (287, 18376), (290, 18403), (296, 18436), (302, 18472), (307, 18487), (316, 18523), (332, 18601), (335, 18619),

Gene: Beelzebub_54 Start: 27672, Stop: 29384, Start Num: 55
Candidate Starts for Beelzebub_54:
(38, 27609), (Start: 55 @27672 has 27 MA's), (71, 27753), (82, 27810), (92, 27891), (94, 27897), (103, 27954), (104, 27966), (107, 27978), (113, 28017), (115, 28032), (125, 28101), (133, 28155), (135, 28164), (162, 28320), (169, 28368), (170, 28377), (172, 28386), (179, 28425), (182, 28440), (194, 28503), (197, 28515), (215, 28632), (216, 28635), (222, 28686), (227, 28713), (229, 28716), (232, 28737), (238, 28779), (260, 28899), (264, 28917), (285, 29061), (290, 29106), (293, 29124), (310, 29208), (312, 29217), (320, 29235), (323, 29256), (332, 29301), (333, 29307), (335, 29319), (338, 29331), (340, 29343), (343, 29367), (345, 29373),

Gene: Bellis_19 Start: 17375, Stop: 19138, Start Num: 41
Candidate Starts for Bellis_19:
(Start: 41 @17375 has 43 MA's), (49, 17402), (65, 17465), (75, 17513), (76, 17519), (83, 17555), (92, 17630), (96, 17654), (97, 17660), (107, 17717), (124, 17831), (126, 17843), (147, 17954), (168, 18098), (169, 18110), (175, 18143), (176, 18158), (207, 18332), (209, 18338), (218, 18395), (223, 18437), (224, 18446), (229, 18458), (241, 18533), (254, 18602), (256, 18614), (264, 18662), (274, 18728), (285, 18806), (290, 18851), (300, 18908), (316, 18971), (322, 19007), (328, 19022), (332, 19052), (333, 19058), (335, 19070), (337, 19079), (339, 19091),

Gene: Bernal13_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for Bernal13_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343, 18669), (345, 18675),

Gene: BigCheese_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for BigCheese_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: BigChungus_17 Start: 15461, Stop: 17155, Start Num: 61
Candidate Starts for BigChungus_17:
(Start: 60 @15458 has 10 MA's), (Start: 61 @15461 has 42 MA's), (79, 15560), (85, 15602), (94, 15671), (120, 15842), (133, 15929), (138, 15950), (140, 15959), (146, 15986), (152, 16031), (157, 16064), (159, 16079), (164, 16103), (167, 16136), (172, 16169), (174, 16181), (183, 16238), (193, 16286), (198, 16316), (203, 16346), (214, 16409), (221, 16460), (230, 16496), (231, 16511), (235, 16529), (243, 16586), (245, 16595), (267, 16715), (269, 16727), (276, 16775), (282, 16826), (283, 16829), (286, 16847), (299, 16925), (301, 16940), (303, 16952), (314, 16994), (342, 17141), (343, 17147),

Gene: BillDoor_20 Start: 15365, Stop: 17062, Start Num: 61
Candidate Starts for BillDoor_20:
(Start: 60 @15362 has 10 MA's), (Start: 61 @15365 has 42 MA's), (79, 15467), (80, 15479), (93, 15575), (107, 15659), (120, 15749), (131, 15809), (133, 15836), (140, 15866), (141, 15869), (152, 15938), (157, 15971), (158, 15983), (159, 15986), (163, 16007), (164, 16010), (172, 16076), (174, 16088), (203, 16253), (230, 16403), (231, 16418), (235, 16436), (243, 16493), (269, 16634), (270, 16640), (272, 16652), (273, 16661), (282, 16733), (283, 16736), (285, 16742), (286, 16754), (301, 16847), (303, 16859), (306, 16868), (314, 16901),

Gene: Biskit_19 Start: 15377, Stop: 17077, Start Num: 60
Candidate Starts for Biskit_19:
(Start: 50 @15350 has 8 MA's), (Start: 60 @15377 has 10 MA's), (Start: 61 @15380 has 42 MA's), (93, 15590), (119, 15758), (120, 15764), (138, 15872), (140, 15881), (146, 15908), (151, 15938), (152, 15953), (157, 15986), (158, 15998), (165, 16034), (172, 16091), (174, 16103), (203, 16268), (230, 16418), (231, 16433), (235, 16451), (243, 16508), (267, 16637), (269, 16649), (272, 16667), (273, 16676), (282, 16748), (283, 16751), (285, 16757), (286, 16769), (303, 16874), (306, 16883), (314, 16916),

Gene: Blackbeetle_50 Start: 26718, Stop: 28430, Start Num: 55
Candidate Starts for Blackbeetle_50:
(38, 26655), (Start: 55 @26718 has 27 MA's), (71, 26799), (82, 26856), (92, 26937), (94, 26943), (103, 27000), (104, 27012), (107, 27024), (113, 27063), (115, 27078), (125, 27147), (133, 27201), (135, 27210), (162, 27366), (169, 27414), (170, 27423), (172, 27432), (179, 27471), (182, 27486), (194, 27549), (197, 27561), (215, 27678), (216, 27681), (222, 27732), (227, 27759), (229, 27762), (232, 27783), (238, 27825), (260, 27945), (264, 27963), (285, 28107), (290, 28152), (293, 28170), (310, 28254), (312, 28263), (320, 28281), (323, 28302), (332, 28347), (333, 28353), (335, 28365), (338, 28377), (340, 28389), (343, 28413), (345, 28419),

Gene: Blondies_19 Start: 15360, Stop: 17060, Start Num: 60
Candidate Starts for Blondies_19:
(Start: 50 @15333 has 8 MA's), (Start: 60 @15360 has 10 MA's), (Start: 61 @15363 has 42 MA's), (93, 15573), (119, 15741), (120, 15747), (131, 15807), (138, 15855), (140, 15864), (146, 15891), (151, 15921), (152, 15936), (157, 15969), (158, 15981), (165, 16017), (172, 16074), (174, 16086), (203, 16251), (230, 16401), (231, 16416), (235, 16434), (243, 16491), (267, 16620), (269, 16632), (272, 16650), (273, 16659), (282, 16731), (283, 16734), (285, 16740), (286, 16752), (303, 16857), (306, 16866), (314, 16899),

Gene: BobsGarage_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for BobsGarage_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Bongo_28 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for Bongo_28:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: BourbonZero_18 Start: 17371, Stop: 19134, Start Num: 41
Candidate Starts for BourbonZero_18:
(Start: 41 @17371 has 43 MA's), (49, 17398), (65, 17461), (75, 17509), (76, 17515), (83, 17551), (92, 17626), (107, 17713), (124, 17827), (126, 17839), (147, 17950), (168, 18094), (169, 18106), (172, 18124), (175, 18139), (207, 18328), (209, 18334), (218, 18391), (223, 18433), (224, 18442), (229, 18454), (241, 18529), (254, 18598), (256, 18610), (264, 18658), (274, 18724), (285, 18802), (290, 18847), (298, 18892), (300, 18904), (316, 18967), (322, 19003), (328, 19018), (332, 19048), (333, 19054), (335, 19066), (337, 19075), (339, 19087),

Gene: BrainDrainer_19 Start: 16711, Stop: 18474, Start Num: 41
Candidate Starts for BrainDrainer_19:
(Start: 41 @16711 has 43 MA's), (76, 16852), (91, 16960), (92, 16963), (123, 17161), (124, 17164), (126, 17176), (130, 17197), (149, 17305), (153, 17335), (169, 17443), (175, 17476), (176, 17491), (181, 17512), (207, 17668), (218, 17731), (223, 17773), (224, 17782), (229, 17794), (236, 17836), (242, 17872), (264, 17998), (269, 18031), (282, 18133), (285, 18142), (287, 18160), (290, 18187), (300, 18244), (308, 18283), (316, 18307), (322, 18343), (328, 18358), (332, 18388), (337, 18415), (339, 18427), (342, 18448),

Gene: Bran_17 Start: 16323, Stop: 18020, Start Num: 44
Candidate Starts for Bran_17:
(Start: 44 @16323 has 4 MA's), (51, 16344), (72, 16428), (77, 16455), (78, 16461), (97, 16593), (108, 16644), (113, 16677), (117, 16701), (134, 16821), (142, 16854), (146, 16872), (154, 16926), (161, 16971), (169, 17028), (171, 17040), (177, 17079), (192, 17139), (195, 17160), (197, 17169), (205, 17226), (219, 17316), (238, 17424), (248, 17478), (250, 17484), (253, 17502), (270, 17598), (273, 17619), (279, 17664), (305, 17823), (309, 17838), (313, 17853), (317, 17865), (343, 18009),

Gene: Breezona_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Breezona_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Bricole_28 Start: 22354, Stop: 24090, Start Num: 47
Candidate Starts for Bricole_28:
(22, 22132), (Start: 36 @22312 has 3 MA's), (Start: 39 @22327 has 2 MA's), (Start: 47 @22354 has 16 MA's), (Start: 55 @22369 has 27 MA's), (64, 22408), (68, 22438), (70, 22444), (73, 22456), (90, 22561), (91, 22576), (98, 22615), (118, 22738), (119, 22747), (133, 22843), (143, 22885), (144, 22888), (146, 22900), (169, 23065), (189, 23176), (194, 23203), (204, 23275), (205, 23284), (206, 23287), (208, 23299), (228, 23419), (229, 23422), (236, 23464), (240, 23494), (242, 23500), (262, 23620), (264, 23626), (328, 23980), (332, 24007), (335, 24025), (337, 24034),

Gene: Bromden_19 Start: 17040, Stop: 18803, Start Num: 41
Candidate Starts for Bromden_19:
(Start: 41 @17040 has 43 MA's), (76, 17181), (82, 17211), (91, 17289), (92, 17292), (123, 17490), (124, 17493), (126, 17505), (149, 17634), (153, 17664), (156, 17685), (169, 17772), (170, 17781), (176, 17820), (181, 17841), (207, 17997), (218, 18060), (223, 18102), (224, 18111), (229, 18123), (242, 18201), (264, 18327), (269, 18360), (282, 18462), (285, 18471), (287, 18489), (290, 18516), (300, 18573), (316, 18636), (322, 18672), (328, 18687), (332, 18717), (337, 18744), (339, 18756), (342, 18777),

Gene: Bubble_18 Start: 15732, Stop: 17429, Start Num: 61
Candidate Starts for Bubble_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Burnsey_18 Start: 15730, Stop: 17430, Start Num: 60
Candidate Starts for Burnsey_18:
(Start: 50 @15703 has 8 MA's), (Start: 60 @15730 has 10 MA's), (Start: 61 @15733 has 42 MA's), (93, 15943), (113, 16066), (120, 16117), (133, 16204), (135, 16213), (140, 16234), (144, 16249), (146, 16261), (157, 16339), (158, 16351), (164, 16378), (167, 16411), (172, 16444), (174, 16456), (182, 16498), (203, 16621), (217, 16693), (230, 16771), (231, 16786), (235, 16804), (243, 16861), (261, 16954), (267, 16990), (269, 17002), (270, 17008), (272, 17020), (273, 17029), (282, 17101), (283, 17104), (285, 17110), (286, 17122), (295, 17182), (303, 17227), (306, 17236), (314, 17269), (331, 17335),

Gene: Buttrmlkdreams_18 Start: 15362, Stop: 17059, Start Num: 61
Candidate Starts for Buttrmlkdreams_18:
(Start: 50 @15332 has 8 MA's), (Start: 60 @15359 has 10 MA's), (Start: 61 @15362 has 42 MA's), (93, 15572), (119, 15740), (120, 15746), (131, 15806), (138, 15854), (140, 15863), (146, 15890), (151, 15920), (152, 15935), (157, 15968), (158, 15980), (165, 16016), (172, 16073), (174, 16085), (197, 16205), (200, 16226), (203, 16250), (230, 16400), (231, 16415), (235, 16433), (243, 16490), (267,

16619), (269, 16631), (272, 16649), (273, 16658), (282, 16730), (283, 16733), (285, 16739), (286, 16751), (303, 16856), (306, 16865), (314, 16898),

Gene: Calm_18 Start: 16760, Stop: 18529, Start Num: 41
Candidate Starts for Calm_18:
(Start: 31 @16697 has 1 MA's), (34, 16718), (35, 16733), (Start: 41 @16760 has 43 MA's), (65, 16853), (75, 16901), (76, 16907), (81, 16934), (82, 16937), (83, 16943), (91, 17015), (94, 17024), (97, 17048), (100, 17063), (104, 17093), (124, 17219), (125, 17228), (128, 17249), (132, 17264), (145, 17333), (151, 17369), (153, 17390), (164, 17459), (169, 17498), (194, 17636), (197, 17648), (207, 17723), (209, 17729), (211, 17747), (218, 17786), (222, 17819), (223, 17828), (224, 17837), (228, 17846), (249, 17969), (256, 18005), (264, 18053), (266, 18065), (274, 18119), (287, 18215), (288, 18233), (289, 18239), (290, 18242), (296, 18275), (300, 18299), (316, 18362), (325, 18404), (332, 18443), (335, 18461), (339, 18482), (342, 18503),

Gene: CanesSauce_18 Start: 15395, Stop: 17095, Start Num: 60
Candidate Starts for CanesSauce_18:
(Start: 60 @15395 has 10 MA's), (Start: 61 @15398 has 42 MA's), (79, 15500), (80, 15512), (93, 15608), (107, 15692), (120, 15782), (131, 15842), (133, 15869), (140, 15899), (141, 15902), (152, 15971), (157, 16004), (158, 16016), (159, 16019), (163, 16040), (164, 16043), (172, 16109), (174, 16121), (203, 16286), (230, 16436), (231, 16451), (235, 16469), (243, 16526), (269, 16667), (270, 16673), (272, 16685), (273, 16694), (282, 16766), (283, 16769), (285, 16775), (286, 16787), (303, 16892), (306, 16901), (314, 16934),

Gene: Caprice_49 Start: 26788, Stop: 28500, Start Num: 55
Candidate Starts for Caprice_49:
(38, 26725), (Start: 55 @26788 has 27 MA's), (71, 26869), (82, 26926), (92, 27007), (94, 27013), (103, 27070), (104, 27082), (107, 27094), (113, 27133), (115, 27148), (125, 27217), (133, 27271), (135, 27280), (162, 27436), (169, 27484), (170, 27493), (172, 27502), (179, 27541), (182, 27556), (194, 27619), (197, 27631), (215, 27748), (216, 27751), (222, 27802), (227, 27829), (229, 27832), (232, 27853), (238, 27895), (260, 28015), (264, 28033), (285, 28177), (290, 28222), (293, 28240), (310, 28324), (312, 28333), (320, 28351), (323, 28372), (332, 28417), (333, 28423), (335, 28435), (338, 28447), (341, 28468),

Gene: CaramelLatte_18 Start: 15395, Stop: 17095, Start Num: 60
Candidate Starts for CaramelLatte_18:
(Start: 60 @15395 has 10 MA's), (Start: 61 @15398 has 42 MA's), (79, 15500), (80, 15512), (93, 15608), (107, 15692), (120, 15782), (131, 15842), (133, 15869), (140, 15899), (141, 15902), (152, 15971), (157, 16004), (158, 16016), (159, 16019), (163, 16040), (164, 16043), (172, 16109), (174, 16121), (203, 16286), (230, 16436), (231, 16451), (235, 16469), (243, 16526), (269, 16667), (270, 16673), (272, 16685), (273, 16694), (282, 16766), (283, 16769), (285, 16775), (286, 16787), (303, 16892), (306, 16901), (314, 16934),

Gene: Carsonalex_19 Start: 15787, Stop: 17487, Start Num: 60
Candidate Starts for Carsonalex_19:
(Start: 60 @15787 has 10 MA's), (Start: 61 @15790 has 42 MA's), (93, 16000), (113, 16123), (120, 16174), (133, 16261), (144, 16306), (146, 16318), (157, 16396), (158, 16408), (164, 16435), (167, 16468), (172, 16501), (174, 16513), (182, 16555), (203, 16678), (217, 16750), (230, 16828), (231, 16843), (235, 16861), (243, 16918), (261, 17011), (267, 17047), (269, 17059), (270, 17065), (272, 17077), (273, 17086), (282, 17158), (283, 17161), (285, 17167), (286, 17179), (295, 17239), (303, 17284), (306, 17293), (314, 17326), (331, 17392),

Gene: Chaser_18 Start: 16640, Stop: 18403, Start Num: 41
Candidate Starts for Chaser_18:

(Start: 41 @16640 has 43 MA's), (76, 16781), (91, 16889), (92, 16892), (123, 17090), (124, 17093), (126, 17105), (130, 17126), (149, 17234), (153, 17264), (169, 17372), (176, 17420), (181, 17441), (207, 17597), (218, 17660), (223, 17702), (224, 17711), (229, 17723), (236, 17765), (264, 17927), (269, 17960), (282, 18062), (285, 18071), (290, 18116), (300, 18173), (308, 18212), (316, 18236), (322, 18272), (328, 18287), (332, 18317), (337, 18344), (339, 18356), (342, 18377),

Gene: ChengKai98_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for ChengKai98_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563), (332, 18641),

Gene: CherryonLim_19 Start: 16167, Stop: 17864, Start Num: 60
Candidate Starts for CherryonLim_19:
(Start: 60 @16167 has 10 MA's), (Start: 61 @16170 has 42 MA's), (79, 16269), (85, 16311), (89, 16332), (120, 16551), (140, 16668), (146, 16695), (152, 16740), (155, 16758), (157, 16773), (159, 16788), (167, 16845), (172, 16878), (174, 16890), (190, 16977), (193, 16995), (198, 17025), (203, 17055), (206, 17070), (214, 17118), (221, 17169), (230, 17205), (231, 17220), (235, 17238), (243, 17295), (267, 17424), (269, 17436), (282, 17535), (283, 17538), (286, 17556), (299, 17634), (303, 17661), (314, 17703), (342, 17850), (343, 17856),

Gene: ChickenTender_20 Start: 15797, Stop: 17494, Start Num: 61
Candidate Starts for ChickenTender_20:
(Start: 60 @15794 has 10 MA's), (Start: 61 @15797 has 42 MA's), (93, 16007), (120, 16181), (131, 16241), (133, 16268), (140, 16298), (141, 16301), (145, 16319), (146, 16325), (151, 16355), (157, 16403), (158, 16415), (164, 16442), (172, 16508), (174, 16520), (198, 16655), (203, 16685), (217, 16757), (230, 16835), (231, 16850), (235, 16868), (243, 16925), (269, 17066), (270, 17072), (272, 17084), (273, 17093), (282, 17165), (283, 17168), (285, 17174), (286, 17186), (295, 17246), (301, 17279), (303, 17291), (306, 17300), (314, 17333), (331, 17399), (339, 17459),

Gene: ChocoMunchkin_18 Start: 15395, Stop: 17095, Start Num: 60
Candidate Starts for ChocoMunchkin_18:
(Start: 60 @15395 has 10 MA's), (Start: 61 @15398 has 42 MA's), (79, 15500), (80, 15512), (93, 15608), (107, 15692), (120, 15782), (131, 15842), (133, 15869), (140, 15899), (141, 15902), (152, 15971), (157, 16004), (158, 16016), (159, 16019), (163, 16040), (164, 16043), (172, 16109), (174, 16121), (203, 16286), (230, 16436), (231, 16451), (235, 16469), (243, 16526), (269, 16667), (270, 16673), (272, 16685), (273, 16694), (282, 16766), (283, 16769), (285, 16775), (286, 16787), (303, 16892), (306, 16901), (314, 16934),

Gene: ChutneyChips_18 Start: 16633, Stop: 18396, Start Num: 41
Candidate Starts for ChutneyChips_18:
(Start: 41 @16633 has 43 MA's), (76, 16774), (82, 16804), (91, 16882), (92, 16885), (123, 17083), (124, 17086), (126, 17098), (130, 17119), (149, 17227), (153, 17257), (169, 17365), (176, 17413), (181, 17434), (207, 17590), (218, 17653), (223, 17695), (224, 17704), (229, 17716), (236, 17758), (242, 17794), (264, 17920), (269, 17953), (282, 18055), (285, 18064), (287, 18082), (290, 18109), (300, 18166), (308, 18205), (316, 18229), (322, 18265), (328, 18280), (332, 18310), (337, 18337), (339, 18349), (342, 18370),

Gene: CicholasNage_18 Start: 16748, Stop: 18517, Start Num: 41
Candidate Starts for CicholasNage_18:

(Start: 31 @16685 has 1 MA's), (34, 16706), (35, 16721), (Start: 41 @16748 has 43 MA's), (65, 16841), (75, 16889), (76, 16895), (81, 16922), (82, 16925), (83, 16931), (91, 17003), (94, 17012), (97, 17036), (100, 17051), (104, 17081), (124, 17207), (125, 17216), (128, 17237), (132, 17252), (145, 17321), (151, 17357), (153, 17378), (164, 17447), (169, 17486), (194, 17624), (197, 17636), (207, 17711), (209, 17717), (211, 17735), (218, 17774), (222, 17807), (223, 17816), (224, 17825), (228, 17834), (249, 17957), (256, 17993), (264, 18041), (266, 18053), (274, 18107), (287, 18203), (288, 18221), (289, 18227), (290, 18230), (296, 18263), (300, 18287), (316, 18350), (325, 18392), (332, 18431), (335, 18449), (339, 18470), (342, 18491),

Gene: Clarkson_51 Start: 27400, Stop: 29112, Start Num: 55
Candidate Starts for Clarkson_51:
(38, 27337), (Start: 55 @27400 has 27 MA's), (71, 27481), (82, 27538), (92, 27619), (94, 27625), (103, 27682), (104, 27694), (107, 27706), (113, 27745), (115, 27760), (125, 27829), (133, 27883), (135, 27892), (162, 28048), (169, 28096), (170, 28105), (172, 28114), (179, 28153), (182, 28168), (194, 28231), (197, 28243), (215, 28360), (222, 28414), (227, 28441), (229, 28444), (232, 28465), (238, 28507), (260, 28627), (264, 28645), (285, 28789), (290, 28834), (293, 28852), (310, 28936), (312, 28945), (320, 28963), (323, 28984), (332, 29029), (333, 29035), (335, 29047), (338, 29059), (340, 29071), (343, 29095), (345, 29101),

Gene: Claus_18 Start: 16970, Stop: 18703, Start Num: 54
Candidate Starts for Claus_18:
(Start: 54 @16970 has 32 MA's), (68, 17039), (91, 17180), (92, 17183), (97, 17213), (100, 17228), (105, 17261), (112, 17306), (120, 17360), (124, 17387), (126, 17399), (133, 17450), (134, 17456), (142, 17489), (166, 17642), (169, 17666), (170, 17675), (178, 17720), (187, 17771), (212, 17933), (222, 17996), (236, 18068), (242, 18104), (259, 18203), (262, 18224), (264, 18230), (266, 18242), (275, 18305), (287, 18392), (290, 18419), (296, 18452), (302, 18488), (307, 18503), (308, 18515), (316, 18539), (332, 18617), (335, 18635),

Gene: Clautastrophe_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for Clautastrophe_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: Cleo_18 Start: 15991, Stop: 17682, Start Num: 61
Candidate Starts for Cleo_18:
(Start: 61 @15991 has 42 MA's), (80, 16105), (86, 16138), (115, 16339), (120, 16375), (133, 16462), (152, 16564), (157, 16597), (158, 16609), (159, 16612), (167, 16669), (172, 16702), (175, 16717), (180, 16744), (185, 16783), (193, 16819), (195, 16825), (203, 16879), (207, 16903), (214, 16942), (216, 16948), (229, 17020), (231, 17038), (234, 17047), (235, 17056), (243, 17113), (246, 17131), (267, 17242), (269, 17254), (273, 17281), (282, 17353), (283, 17356), (299, 17452), (303, 17479), (309, 17503), (314, 17521),

Gene: CocoaPuff_17 Start: 15415, Stop: 17109, Start Num: 61
Candidate Starts for CocoaPuff_17:
(Start: 60 @15412 has 10 MA's), (Start: 61 @15415 has 42 MA's), (79, 15514), (85, 15556), (120, 15796), (133, 15883), (138, 15904), (140, 15913), (146, 15940), (152, 15985), (157, 16018), (159, 16033), (164, 16057), (167, 16090), (172, 16123), (174, 16135), (183, 16192), (193, 16240), (198, 16270), (203, 16300), (206, 16315), (214, 16363), (221, 16414), (230, 16450), (231, 16465), (235, 16483), (243, 16540), (245, 16549), (267, 16669), (269, 16681), (276, 16729), (282, 16780), (283,

16783), (286, 16801), (299, 16879), (303, 16906), (314, 16948), (342, 17095), (343, 17101),

Gene: Corazon_48 Start: 27353, Stop: 29065, Start Num: 55
Candidate Starts for Corazon_48:
(38, 27290), (Start: 55 @27353 has 27 MA's), (71, 27434), (82, 27491), (92, 27572), (94, 27578), (103, 27635), (104, 27647), (107, 27659), (113, 27698), (115, 27713), (125, 27782), (133, 27836), (135, 27845), (162, 28001), (169, 28049), (170, 28058), (172, 28067), (179, 28106), (182, 28121), (194, 28184), (197, 28196), (215, 28313), (216, 28316), (222, 28367), (227, 28394), (229, 28397), (232, 28418), (238, 28460), (260, 28580), (264, 28598), (285, 28742), (290, 28787), (293, 28805), (310, 28889), (312, 28898), (320, 28916), (323, 28937), (332, 28982), (333, 28988), (335, 29000), (338, 29012), (341, 29033), (343, 29048), (345, 29054),

Gene: Cosmo_40 Start: 25304, Stop: 27688, Start Num: 1
Candidate Starts for Cosmo_40:
(Start: 1 @25304 has 5 MA's), (5, 25421), (6, 25442), (7, 25445), (8, 25475), (9, 25481), (10, 25490), (15, 25580), (16, 25616), (17, 25634), (19, 25661), (20, 25673), (22, 25682), (24, 25745), (25, 25781), (27, 25817), (28, 25820), (30, 25826), (43, 25898), (53, 25928), (67, 25997), (68, 26000), (81, 26087), (85, 26105), (86, 26108), (91, 26168), (98, 26207), (105, 26249), (107, 26258), (108, 26264), (111, 26279), (112, 26294), (119, 26342), (133, 26438), (143, 26480), (144, 26483), (169, 26660), (172, 26678), (175, 26693), (176, 26708), (181, 26729), (186, 26762), (189, 26771), (193, 26801), (201, 26840), (205, 26882), (207, 26894), (208, 26897), (218, 26957), (228, 27017), (236, 27062), (242, 27098), (254, 27164), (262, 27218), (264, 27224), (274, 27290), (298, 27461), (304, 27485), (332, 27605), (336, 27626), (338, 27635), (343, 27671),

Gene: Cozz_18 Start: 15733, Stop: 17430, Start Num: 61
Candidate Starts for Cozz_18:
(Start: 60 @15730 has 10 MA's), (Start: 61 @15733 has 42 MA's), (93, 15943), (113, 16066), (120, 16117), (133, 16204), (140, 16234), (144, 16249), (146, 16261), (157, 16339), (158, 16351), (164, 16378), (167, 16411), (172, 16444), (174, 16456), (182, 16498), (203, 16621), (217, 16693), (230, 16771), (231, 16786), (235, 16804), (243, 16861), (261, 16954), (267, 16990), (269, 17002), (270, 17008), (272, 17020), (273, 17029), (282, 17101), (283, 17104), (285, 17110), (286, 17122), (295, 17182), (303, 17227), (306, 17236), (314, 17269), (331, 17335),

Gene: Crossroads_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Crossroads_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (281, 18375), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: DHan_18 Start: 16906, Stop: 18639, Start Num: 54
Candidate Starts for DHan_18:
(Start: 54 @16906 has 32 MA's), (68, 16975), (91, 17116), (92, 17119), (97, 17149), (100, 17164), (105, 17197), (112, 17242), (120, 17296), (124, 17323), (126, 17335), (133, 17386), (134, 17392), (142, 17425), (166, 17578), (169, 17602), (170, 17611), (178, 17656), (187, 17707), (203, 17812), (212, 17869), (222, 17932), (236, 18004), (242, 18040), (259, 18139), (262, 18160), (264, 18166), (266, 18178), (275, 18241), (287, 18328), (290, 18355), (296, 18388), (302, 18424), (307, 18439), (308, 18451), (316, 18475), (332, 18553), (335, 18571),

Gene: DanBing_17 Start: 16810, Stop: 18543, Start Num: 54
Candidate Starts for DanBing_17:

(Start: 54 @16810 has 32 MA's), (68, 16879), (91, 17020), (92, 17023), (97, 17053), (100, 17068), (105, 17101), (112, 17146), (120, 17200), (124, 17227), (126, 17239), (133, 17290), (134, 17296), (142, 17329), (166, 17482), (169, 17506), (170, 17515), (178, 17560), (187, 17611), (203, 17716), (212, 17773), (222, 17836), (236, 17908), (242, 17944), (259, 18043), (262, 18064), (264, 18070), (266, 18082), (275, 18145), (287, 18232), (290, 18259), (296, 18292), (302, 18328), (307, 18343), (308, 18355), (316, 18379), (332, 18457), (335, 18475),

Gene: Diminimus_29 Start: 22367, Stop: 24103, Start Num: 47
Candidate Starts for Diminimus_29:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: DirkDirk_18 Start: 16739, Stop: 18508, Start Num: 41
Candidate Starts for DirkDirk_18:
(Start: 31 @16676 has 1 MA's), (34, 16697), (35, 16712), (Start: 41 @16739 has 43 MA's), (65, 16832), (75, 16880), (76, 16886), (81, 16913), (83, 16922), (91, 16994), (94, 17003), (97, 17027), (100, 17042), (104, 17072), (124, 17198), (125, 17207), (128, 17228), (132, 17243), (145, 17312), (151, 17348), (153, 17369), (164, 17438), (169, 17477), (194, 17615), (197, 17627), (207, 17702), (209, 17708), (211, 17726), (218, 17765), (222, 17798), (223, 17807), (224, 17816), (228, 17825), (249, 17948), (256, 17984), (264, 18032), (266, 18044), (274, 18098), (287, 18194), (288, 18212), (289, 18218), (290, 18221), (296, 18254), (300, 18278), (316, 18341), (325, 18383), (332, 18422), (335, 18440), (339, 18461), (342, 18482),

Gene: Douge_18 Start: 16581, Stop: 18344, Start Num: 41
Candidate Starts for Douge_18:
(Start: 41 @16581 has 43 MA's), (76, 16722), (91, 16830), (92, 16833), (123, 17031), (124, 17034), (126, 17046), (130, 17067), (149, 17175), (153, 17205), (169, 17313), (175, 17346), (176, 17361), (181, 17382), (207, 17538), (218, 17601), (223, 17643), (224, 17652), (236, 17706), (242, 17742), (264, 17868), (269, 17901), (282, 18003), (285, 18012), (287, 18030), (290, 18057), (300, 18114), (308, 18153), (316, 18177), (322, 18213), (328, 18228), (332, 18258), (337, 18285), (339, 18297), (342, 18318),

Gene: Douzhi_18 Start: 16572, Stop: 18335, Start Num: 41
Candidate Starts for Douzhi_18:
(Start: 41 @16572 has 43 MA's), (76, 16713), (91, 16821), (92, 16824), (123, 17022), (124, 17025), (126, 17037), (130, 17058), (149, 17166), (153, 17196), (169, 17304), (175, 17337), (176, 17352), (181, 17373), (207, 17529), (218, 17592), (223, 17634), (224, 17643), (229, 17655), (236, 17697), (242, 17733), (264, 17859), (269, 17892), (282, 17994), (285, 18003), (287, 18021), (290, 18048), (300, 18105), (308, 18144), (316, 18168), (322, 18204), (328, 18219), (332, 18249), (337, 18276), (339, 18288), (342, 18309),

Gene: DrSeegs_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for DrSeegs_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Dre3_18 Start: 15938, Stop: 17629, Start Num: 61
Candidate Starts for Dre3_18:
(Start: 61 @15938 has 42 MA's), (80, 16052), (86, 16085), (115, 16286), (120, 16322), (133, 16409), (152, 16511), (157, 16544), (158, 16556), (159, 16559), (167, 16616), (172, 16649), (175, 16664), (180, 16691), (185, 16730), (193, 16766), (195, 16772), (203, 16826), (207, 16850), (214, 16889), (216, 16895), (229, 16967), (231, 16985), (234, 16994), (235, 17003), (243, 17060), (246, 17078), (267, 17189), (269, 17201), (271, 17216), (273, 17228), (282, 17300), (283, 17303), (299, 17399), (303, 17426), (309, 17450), (314, 17468),

Gene: Dulcita_29 Start: 22367, Stop: 24103, Start Num: 47
Candidate Starts for Dulcita_29:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: DuncansLeg_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for DuncansLeg_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (253, 18597), (256, 18612), (264, 18660), (285, 18804), (290, 18849), (298, 18894), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: DyoEdafos_19 Start: 16789, Stop: 18552, Start Num: 41
Candidate Starts for DyoEdafos_19:
(Start: 41 @16789 has 43 MA's), (76, 16930), (82, 16960), (91, 17038), (92, 17041), (123, 17239), (124, 17242), (126, 17254), (130, 17275), (149, 17383), (153, 17413), (169, 17521), (170, 17530), (175, 17554), (176, 17569), (181, 17590), (207, 17746), (218, 17809), (223, 17851), (224, 17860), (229, 17872), (242, 17950), (264, 18076), (265, 18085), (269, 18109), (282, 18211), (285, 18220), (287, 18238), (290, 18265), (300, 18322), (316, 18385), (322, 18421), (328, 18436), (332, 18466), (337, 18493), (339, 18505), (342, 18526),

Gene: ElJefes_17 Start: 15890, Stop: 17587, Start Num: 60
Candidate Starts for ElJefes_17:
(Start: 60 @15890 has 10 MA's), (Start: 61 @15893 has 42 MA's), (79, 15992), (85, 16034), (89, 16055), (120, 16274), (140, 16391), (146, 16418), (152, 16463), (153, 16469), (155, 16481), (157, 16496), (159, 16511), (167, 16568), (172, 16601), (174, 16613), (190, 16700), (193, 16718), (198, 16748), (203, 16778), (206, 16793), (214, 16841), (221, 16892), (230, 16928), (231, 16943), (235, 16961), (243, 17018), (267, 17147), (269, 17159), (276, 17207), (282, 17258), (283, 17261), (286, 17279), (299, 17357), (303, 17384), (314, 17426), (342, 17573), (343, 17579),

Gene: Elinal_19 Start: 15418, Stop: 17112, Start Num: 61
Candidate Starts for Elinal_19:
(Start: 60 @15415 has 10 MA's), (Start: 61 @15418 has 42 MA's), (79, 15517), (85, 15559), (120, 15799), (133, 15886), (138, 15907), (140, 15916), (146, 15943), (152, 15988), (157, 16021), (159, 16036), (164, 16060), (167, 16093), (172, 16126), (174, 16138), (183, 16195), (190, 16225), (193, 16243), (198, 16273), (203, 16303), (214, 16366), (221, 16417), (230, 16453), (231, 16468), (235, 16486), (243, 16543), (245, 16552), (267, 16672), (269, 16684), (276, 16732), (282, 16783), (283,

16786), (286, 16804), (299, 16882), (303, 16909), (314, 16951), (342, 17098), (343, 17104),

Gene: Eliott_18 Start: 15729, Stop: 17429, Start Num: 60
Candidate Starts for Eliott_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Ellson_19 Start: 17381, Stop: 19144, Start Num: 41
Candidate Starts for Ellson_19:
(Start: 41 @17381 has 43 MA's), (49, 17408), (65, 17471), (75, 17519), (76, 17525), (83, 17561), (92, 17636), (107, 17723), (124, 17837), (126, 17849), (147, 17960), (168, 18104), (169, 18116), (172, 18134), (175, 18149), (207, 18338), (218, 18401), (223, 18443), (224, 18452), (229, 18464), (241, 18539), (254, 18608), (256, 18620), (264, 18668), (274, 18734), (285, 18812), (290, 18857), (298, 18902), (300, 18914), (316, 18977), (322, 19013), (328, 19028), (332, 19058), (333, 19064), (335, 19076), (337, 19085), (339, 19097),

Gene: Emalyn_17 Start: 15033, Stop: 16727, Start Num: 61
Candidate Starts for Emalyn_17:
(Start: 60 @15030 has 10 MA's), (Start: 61 @15033 has 42 MA's), (79, 15132), (80, 15144), (93, 15240), (107, 15324), (120, 15414), (131, 15474), (146, 15558), (152, 15603), (157, 15636), (158, 15648), (163, 15672), (172, 15741), (174, 15753), (203, 15918), (217, 15990), (230, 16068), (231, 16083), (235, 16101), (243, 16158), (269, 16299), (270, 16305), (272, 16317), (273, 16326), (282, 16398), (283, 16401), (285, 16407), (286, 16419), (303, 16524), (306, 16533), (314, 16566), (343, 16719),

Gene: Enceladus_18 Start: 16740, Stop: 18509, Start Num: 41
Candidate Starts for Enceladus_18:
(Start: 31 @16677 has 1 MA's), (34, 16698), (35, 16713), (Start: 41 @16740 has 43 MA's), (65, 16833), (75, 16881), (76, 16887), (81, 16914), (83, 16923), (91, 16995), (94, 17004), (97, 17028), (100, 17043), (104, 17073), (124, 17199), (125, 17208), (128, 17229), (132, 17244), (145, 17313), (151, 17349), (153, 17370), (164, 17439), (169, 17478), (194, 17616), (197, 17628), (207, 17703), (209, 17709), (211, 17727), (218, 17766), (222, 17799), (223, 17808), (224, 17817), (228, 17826), (249, 17949), (256, 17985), (264, 18033), (266, 18045), (274, 18099), (287, 18195), (288, 18213), (289, 18219), (290, 18222), (296, 18255), (300, 18279), (316, 18342), (325, 18384), (332, 18423), (335, 18441), (339, 18462), (342, 18483),

Gene: EniyanLRS_37 Start: 25002, Stop: 27386, Start Num: 1
Candidate Starts for EniyanLRS_37:
(Start: 1 @25002 has 5 MA's), (5, 25119), (6, 25140), (7, 25143), (8, 25173), (9, 25179), (10, 25188), (15, 25278), (16, 25314), (17, 25332), (19, 25359), (20, 25371), (22, 25380), (24, 25443), (25, 25479), (27, 25515), (28, 25518), (30, 25524), (43, 25596), (53, 25626), (67, 25695), (68, 25698), (81, 25785), (85, 25803), (86, 25806), (91, 25866), (98, 25905), (105, 25947), (107, 25956), (108, 25962), (111, 25977), (112, 25992), (119, 26040), (133, 26136), (143, 26178), (144, 26181), (169, 26358), (172, 26376), (175, 26391), (176, 26406), (181, 26427), (186, 26460), (189, 26469), (193, 26499), (201, 26538), (205, 26580), (207, 26592), (208, 26595), (218, 26655), (228, 26715), (236, 26760), (242, 26796), (254, 26862), (262, 26916), (264, 26922), (274, 26988), (298, 27159), (304, 27183), (332, 27303), (336, 27324), (338, 27333), (343, 27369),

Gene: Estes_33 Start: 23088, Stop: 24827, Start Num: 47

Candidate Starts for Estes_33:
(Start: 36 @23046 has 3 MA's), (Start: 39 @23061 has 2 MA's), (Start: 47 @23088 has 16 MA's), (66, 23166), (68, 23172), (73, 23190), (98, 23352), (100, 23361), (102, 23376), (117, 23463), (118, 23475), (119, 23484), (125, 23526), (133, 23580), (136, 23592), (143, 23622), (144, 23625), (149, 23658), (167, 23787), (169, 23802), (172, 23820), (204, 24012), (205, 24021), (207, 24033), (209, 24039), (223, 24138), (224, 24147), (228, 24156), (234, 24186), (238, 24225), (254, 24303), (257, 24318), (262, 24357), (264, 24363), (328, 24717), (332, 24744), (333, 24750), (341, 24795),

Gene: Faith1_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Faith1_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Farewell_16 Start: 16143, Stop: 17858, Start Num: 52
Candidate Starts for Farewell_16:
(Start: 52 @16143 has 2 MA's), (56, 16152), (82, 16278), (91, 16356), (93, 16362), (94, 16365), (99, 16398), (107, 16446), (108, 16452), (118, 16518), (122, 16551), (125, 16569), (143, 16665), (161, 16779), (169, 16836), (172, 16854), (178, 16890), (194, 16971), (196, 16980), (207, 17058), (213, 17094), (229, 17184), (242, 17259), (264, 17385), (278, 17475), (291, 17577), (320, 17706), (330, 17748), (332, 17775), (337, 17802), (339, 17814), (340, 17817), (343, 17841),

Gene: FarmResident_18 Start: 16625, Stop: 18388, Start Num: 41
Candidate Starts for FarmResident_18:
(Start: 41 @16625 has 43 MA's), (76, 16766), (91, 16874), (92, 16877), (123, 17075), (124, 17078), (126, 17090), (130, 17111), (149, 17219), (153, 17249), (169, 17357), (175, 17390), (176, 17405), (181, 17426), (207, 17582), (218, 17645), (223, 17687), (224, 17696), (236, 17750), (242, 17786), (264, 17912), (269, 17945), (282, 18047), (285, 18056), (287, 18074), (290, 18101), (300, 18158), (308, 18197), (316, 18221), (322, 18257), (328, 18272), (332, 18302), (337, 18329), (339, 18341), (342, 18362),

Gene: Feastonyeet_17 Start: 15461, Stop: 17155, Start Num: 61
Candidate Starts for Feastonyeet_17:
(Start: 60 @15458 has 10 MA's), (Start: 61 @15461 has 42 MA's), (79, 15560), (85, 15602), (94, 15671), (120, 15842), (133, 15929), (138, 15950), (140, 15959), (146, 15986), (152, 16031), (157, 16064), (159, 16079), (164, 16103), (167, 16136), (172, 16169), (174, 16181), (183, 16238), (193, 16286), (198, 16316), (203, 16346), (214, 16409), (221, 16460), (230, 16496), (231, 16511), (235, 16529), (243, 16586), (245, 16595), (267, 16715), (269, 16727), (276, 16775), (282, 16826), (283, 16829), (286, 16847), (299, 16925), (301, 16940), (303, 16952), (314, 16994), (342, 17141), (343, 17147),

Gene: FeliMaine_52 Start: 27401, Stop: 29113, Start Num: 55
Candidate Starts for FeliMaine_52:
(38, 27338), (Start: 55 @27401 has 27 MA's), (71, 27482), (82, 27539), (92, 27620), (94, 27626), (103, 27683), (104, 27695), (107, 27707), (113, 27746), (115, 27761), (125, 27830), (133, 27884), (135, 27893), (162, 28049), (169, 28097), (170, 28106), (172, 28115), (179, 28154), (182, 28169), (194, 28232), (197, 28244), (215, 28361), (216, 28364), (222, 28415), (227, 28442), (229, 28445), (232, 28466), (238, 28508), (260, 28628), (264, 28646), (285, 28790), (290, 28835), (293, 28853), (310, 28937), (312, 28946), (320, 28964), (323, 28985), (332, 29030), (333, 29036), (335, 29048), (338, 29060), (341, 29081), (343, 29096), (345, 29102),

Gene: Finemlucis_18 Start: 16995, Stop: 18728, Start Num: 54
Candidate Starts for Finemlucis_18:
(Start: 54 @16995 has 32 MA's), (68, 17064), (91, 17205), (92, 17208), (100, 17253), (105, 17286), (107, 17295), (112, 17331), (120, 17385), (124, 17412), (126, 17424), (133, 17475), (134, 17481), (142, 17514), (166, 17667), (169, 17691), (170, 17700), (178, 17745), (181, 17760), (194, 17838), (212, 17958), (222, 18021), (236, 18093), (242, 18129), (262, 18249), (264, 18255), (266, 18267), (275, 18330), (287, 18417), (290, 18444), (302, 18513), (307, 18528), (308, 18540), (316, 18564), (332, 18642),

Gene: Finnry_19 Start: 17377, Stop: 19140, Start Num: 41
Candidate Starts for Finnry_19:
(Start: 41 @17377 has 43 MA's), (49, 17404), (65, 17467), (75, 17515), (76, 17521), (83, 17557), (92, 17632), (96, 17656), (97, 17662), (107, 17719), (124, 17833), (126, 17845), (147, 17956), (168, 18100), (169, 18112), (175, 18145), (176, 18160), (207, 18334), (209, 18340), (218, 18397), (223, 18439), (224, 18448), (229, 18460), (241, 18535), (254, 18604), (256, 18616), (264, 18664), (274, 18730), (285, 18808), (290, 18853), (300, 18910), (316, 18973), (322, 19009), (328, 19024), (332, 19054), (333, 19060), (335, 19072), (337, 19081), (339, 19093),

Gene: FreakyGoo_29 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for FreakyGoo_29:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: GTE2_16 Start: 15173, Stop: 16768, Start Num: 79
Candidate Starts for GTE2_16:
(Start: 60 @15068 has 10 MA's), (Start: 61 @15071 has 42 MA's), (79, 15173), (80, 15185), (93, 15281), (107, 15365), (120, 15455), (131, 15515), (133, 15542), (140, 15572), (141, 15575), (146, 15599), (151, 15629), (152, 15644), (157, 15677), (158, 15689), (159, 15692), (163, 15713), (172, 15782), (174, 15794), (182, 15836), (203, 15959), (230, 16109), (231, 16124), (235, 16142), (243, 16199), (269, 16340), (270, 16346), (272, 16358), (273, 16367), (282, 16439), (283, 16442), (285, 16448), (286, 16460), (301, 16553), (303, 16565), (306, 16574), (314, 16607),

Gene: Gabriela_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Gabriela_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Gardann_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for Gardann_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563),

(332, 18641),

Gene: GardenSalsa_32 Start: 22870, Stop: 24651, Start Num: 36
Candidate Starts for GardenSalsa_32:
(Start: 36 @22870 has 3 MA's), (Start: 39 @22885 has 2 MA's), (Start: 47 @22912 has 16 MA's), (66, 22990), (68, 22996), (73, 23014), (98, 23176), (100, 23185), (102, 23200), (117, 23287), (118, 23299), (119, 23308), (133, 23404), (136, 23416), (143, 23446), (144, 23449), (149, 23482), (167, 23611), (169, 23626), (172, 23644), (176, 23674), (204, 23836), (205, 23845), (207, 23857), (209, 23863), (223, 23962), (224, 23971), (228, 23980), (238, 24049), (257, 24142), (262, 24181), (264, 24187), (265, 24196), (328, 24541), (332, 24568), (333, 24574), (341, 24619),

Gene: Gattaca_49 Start: 26580, Stop: 28292, Start Num: 55
Candidate Starts for Gattaca_49:
(38, 26517), (Start: 55 @26580 has 27 MA's), (71, 26661), (82, 26718), (92, 26799), (94, 26805), (103, 26862), (104, 26874), (107, 26886), (113, 26925), (115, 26940), (125, 27009), (133, 27063), (135, 27072), (162, 27228), (169, 27276), (170, 27285), (172, 27294), (179, 27333), (182, 27348), (194, 27411), (197, 27423), (215, 27540), (216, 27543), (222, 27594), (227, 27621), (229, 27624), (232, 27645), (238, 27687), (260, 27807), (264, 27825), (285, 27969), (290, 28014), (293, 28032), (310, 28116), (312, 28125), (320, 28143), (323, 28164), (332, 28209), (333, 28215), (335, 28227), (338, 28239), (341, 28260), (343, 28275), (345, 28281),

Gene: GenevaB15_32 Start: 22915, Stop: 24696, Start Num: 36
Candidate Starts for GenevaB15_32:
(Start: 36 @22915 has 3 MA's), (Start: 39 @22930 has 2 MA's), (Start: 47 @22957 has 16 MA's), (66, 23035), (68, 23041), (73, 23059), (98, 23221), (100, 23230), (102, 23245), (117, 23332), (118, 23344), (119, 23353), (133, 23449), (136, 23461), (143, 23491), (144, 23494), (149, 23527), (167, 23656), (169, 23671), (172, 23689), (204, 23881), (205, 23890), (207, 23902), (209, 23908), (223, 24007), (224, 24016), (228, 24025), (238, 24094), (254, 24172), (257, 24187), (262, 24226), (264, 24232), (328, 24586), (332, 24613), (333, 24619),

Gene: Gibbous_18 Start: 15938, Stop: 17629, Start Num: 61
Candidate Starts for Gibbous_18:
(Start: 61 @15938 has 42 MA's), (80, 16052), (86, 16085), (115, 16286), (120, 16322), (133, 16409), (152, 16511), (157, 16544), (158, 16556), (159, 16559), (167, 16616), (172, 16649), (175, 16664), (180, 16691), (185, 16730), (193, 16766), (195, 16772), (203, 16826), (207, 16850), (214, 16889), (216, 16895), (229, 16967), (231, 16985), (234, 16994), (235, 17003), (243, 17060), (246, 17078), (267, 17189), (269, 17201), (271, 17216), (273, 17228), (282, 17300), (283, 17303), (299, 17399), (303, 17426), (309, 17450), (314, 17468),

Gene: Glaske16_29 Start: 22367, Stop: 24103, Start Num: 47
Candidate Starts for Glaske16_29:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: GoldHunter_18 Start: 15733, Stop: 17430, Start Num: 61
Candidate Starts for GoldHunter_18:
(Start: 60 @15730 has 10 MA's), (Start: 61 @15733 has 42 MA's), (93, 15943), (113, 16066), (120, 16117), (133, 16204), (135, 16213), (140, 16234), (144, 16249), (146, 16261), (157, 16339), (158, 16351), (164, 16378), (167, 16411), (172, 16444), (174, 16456), (182, 16498), (203, 16621), (217,

16693), (230, 16771), (231, 16786), (235, 16804), (243, 16861), (261, 16954), (267, 16990), (269, 17002), (270, 17008), (272, 17020), (273, 17029), (282, 17101), (283, 17104), (285, 17110), (286, 17122), (295, 17182), (303, 17227), (306, 17236), (314, 17269), (331, 17335),

Gene: GoongGoong_49 Start: 26620, Stop: 28332, Start Num: 55
Candidate Starts for GoongGoong_49:
(38, 26557), (Start: 55 @26620 has 27 MA's), (71, 26701), (82, 26758), (92, 26839), (94, 26845), (103, 26902), (104, 26914), (107, 26926), (113, 26965), (115, 26980), (125, 27049), (133, 27103), (135, 27112), (162, 27268), (169, 27316), (170, 27325), (172, 27334), (179, 27373), (182, 27388), (194, 27451), (197, 27463), (215, 27580), (216, 27583), (222, 27634), (227, 27661), (229, 27664), (232, 27685), (238, 27727), (260, 27847), (264, 27865), (285, 28009), (290, 28054), (293, 28072), (310, 28156), (320, 28183), (323, 28204), (332, 28249), (333, 28255), (335, 28267), (338, 28279), (340, 28291), (343, 28315), (345, 28321),

Gene: GuuelaD_18 Start: 17023, Stop: 18756, Start Num: 54
Candidate Starts for GuuelaD_18:
(Start: 54 @17023 has 32 MA's), (68, 17092), (91, 17233), (92, 17236), (97, 17266), (100, 17281), (105, 17314), (107, 17323), (112, 17359), (120, 17413), (124, 17440), (133, 17503), (134, 17509), (142, 17542), (151, 17590), (166, 17695), (169, 17719), (170, 17728), (178, 17773), (182, 17791), (187, 17824), (194, 17866), (212, 17986), (222, 18049), (236, 18121), (241, 18154), (242, 18157), (257, 18238), (259, 18256), (262, 18277), (264, 18283), (266, 18295), (275, 18358), (287, 18445), (290, 18472), (296, 18505), (302, 18541), (307, 18556), (316, 18592), (332, 18670), (335, 18688),

Gene: Hafay_18 Start: 17022, Stop: 18755, Start Num: 54
Candidate Starts for Hafay_18:
(Start: 54 @17022 has 32 MA's), (68, 17091), (91, 17232), (92, 17235), (100, 17280), (105, 17313), (107, 17322), (112, 17358), (120, 17412), (124, 17439), (126, 17451), (133, 17502), (134, 17508), (142, 17541), (166, 17694), (169, 17718), (170, 17727), (178, 17772), (181, 17787), (194, 17865), (212, 17985), (222, 18048), (236, 18120), (242, 18156), (262, 18276), (264, 18282), (266, 18294), (275, 18357), (287, 18444), (290, 18471), (302, 18540), (307, 18555), (308, 18567), (316, 18591), (332, 18669),

Gene: Halena_18 Start: 16747, Stop: 18516, Start Num: 41
Candidate Starts for Halena_18:
(Start: 31 @16684 has 1 MA's), (34, 16705), (35, 16720), (Start: 41 @16747 has 43 MA's), (65, 16840), (75, 16888), (76, 16894), (81, 16921), (82, 16924), (83, 16930), (91, 17002), (94, 17011), (97, 17035), (100, 17050), (104, 17080), (124, 17206), (125, 17215), (128, 17236), (132, 17251), (145, 17320), (151, 17356), (153, 17377), (164, 17446), (169, 17485), (194, 17623), (197, 17635), (207, 17710), (209, 17716), (211, 17734), (218, 17773), (222, 17806), (223, 17815), (224, 17824), (228, 17833), (229, 17836), (249, 17956), (256, 17992), (264, 18040), (266, 18052), (274, 18106), (287, 18202), (288, 18220), (289, 18226), (290, 18229), (296, 18262), (300, 18286), (316, 18349), (325, 18391), (332, 18430), (335, 18448), (339, 18469), (342, 18490),

Gene: HippoPololi_20 Start: 16592, Stop: 18283, Start Num: 61
Candidate Starts for HippoPololi_20:
(Start: 50 @16559 has 8 MA's), (Start: 61 @16592 has 42 MA's), (Start: 63 @16604 has 1 MA's), (80, 16706), (85, 16736), (115, 16940), (120, 16976), (127, 17018), (133, 17063), (152, 17165), (157, 17198), (158, 17210), (159, 17213), (167, 17270), (172, 17303), (175, 17318), (180, 17345), (185, 17384), (195, 17426), (197, 17435), (203, 17480), (207, 17504), (214, 17543), (231, 17639), (234, 17648), (235, 17657), (243, 17714), (246, 17732), (261, 17807), (269, 17855), (271, 17870), (273, 17882), (282, 17954), (283, 17957), (284, 17960), (285, 17963), (299, 18053), (303, 18080), (314, 18122), (317, 18131), (320, 18140),

Gene: Hiraya_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Hiraya_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Horseradish_19 Start: 15276, Stop: 16973, Start Num: 61
Candidate Starts for Horseradish_19:
(Start: 50 @15246 has 8 MA's), (Start: 60 @15273 has 10 MA's), (Start: 61 @15276 has 42 MA's), (93, 15486), (119, 15654), (120, 15660), (138, 15768), (146, 15804), (151, 15834), (152, 15849), (157, 15882), (158, 15894), (165, 15930), (172, 15987), (174, 15999), (197, 16119), (200, 16140), (203, 16164), (230, 16314), (231, 16329), (235, 16347), (243, 16404), (267, 16533), (269, 16545), (272, 16563), (273, 16572), (282, 16644), (283, 16647), (285, 16653), (286, 16665), (303, 16770), (306, 16779), (314, 16812), (339, 16938),

Gene: Huphlepuff_52 Start: 27205, Stop: 28917, Start Num: 55
Candidate Starts for Huphlepuff_52:
(38, 27142), (Start: 55 @27205 has 27 MA's), (71, 27286), (82, 27343), (92, 27424), (94, 27430), (103, 27487), (104, 27499), (107, 27511), (113, 27550), (115, 27565), (125, 27634), (133, 27688), (135, 27697), (162, 27853), (169, 27901), (170, 27910), (172, 27919), (179, 27958), (182, 27973), (194, 28036), (197, 28048), (215, 28165), (216, 28168), (222, 28219), (227, 28246), (229, 28249), (232, 28270), (238, 28312), (260, 28432), (264, 28450), (285, 28594), (290, 28639), (293, 28657), (310, 28741), (312, 28750), (320, 28768), (323, 28789), (332, 28834), (333, 28840), (335, 28852), (338, 28864), (340, 28876), (343, 28900), (345, 28906),

Gene: IPhane7_28 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for IPhane7_28:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: Ibrahim_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for Ibrahim_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343, 18669), (345, 18675),

Gene: Itos_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Itos_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Izel_29 Start: 22367, Stop: 24103, Start Num: 47
Candidate Starts for Izel_29:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: Jobypre_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for Jobypre_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: JoeDirt_18 Start: 16738, Stop: 18507, Start Num: 41
Candidate Starts for JoeDirt_18:
(Start: 31 @16675 has 1 MA's), (34, 16696), (35, 16711), (Start: 41 @16738 has 43 MA's), (65, 16831), (75, 16879), (76, 16885), (81, 16912), (83, 16921), (91, 16993), (94, 17002), (97, 17026), (100, 17041), (104, 17071), (124, 17197), (125, 17206), (128, 17227), (132, 17242), (145, 17311), (151, 17347), (153, 17368), (164, 17437), (169, 17476), (194, 17614), (197, 17626), (207, 17701), (209, 17707), (211, 17725), (218, 17764), (222, 17797), (223, 17806), (224, 17815), (228, 17824), (249, 17947), (256, 17983), (264, 18031), (266, 18043), (274, 18097), (287, 18193), (288, 18211), (289, 18217), (290, 18220), (296, 18253), (300, 18277), (316, 18340), (325, 18382), (332, 18421), (335, 18439), (339, 18460), (342, 18481),

Gene: JoieB_51 Start: 27397, Stop: 29109, Start Num: 55
Candidate Starts for JoieB_51:
(38, 27334), (Start: 55 @27397 has 27 MA's), (71, 27478), (82, 27535), (92, 27616), (94, 27622), (103, 27679), (104, 27691), (107, 27703), (113, 27742), (115, 27757), (125, 27826), (133, 27880), (135, 27889), (162, 28045), (169, 28093), (170, 28102), (172, 28111), (179, 28150), (182, 28165), (194, 28228), (197, 28240), (215, 28357), (216, 28360), (222, 28411), (227, 28438), (229, 28441), (232, 28462), (238, 28504), (260, 28624), (264, 28642), (285, 28786), (290, 28831), (293, 28849), (310, 28933), (312, 28942), (320, 28960), (323, 28981), (332, 29026), (333, 29032), (335, 29044), (338, 29056), (341, 29077), (343, 29092), (345, 29098),

Gene: Jubie_19 Start: 17374, Stop: 19137, Start Num: 41
Candidate Starts for Jubie_19:
(Start: 41 @17374 has 43 MA's), (49, 17401), (65, 17464), (75, 17512), (76, 17518), (83, 17554), (92, 17629), (96, 17653), (97, 17659), (107, 17716), (124, 17830), (126, 17842), (147, 17953), (168, 18097), (169, 18109), (175, 18142), (207, 18331), (209, 18337), (218, 18394), (223, 18436), (224, 18445), (229, 18457), (241, 18532), (254, 18601), (256, 18613), (264, 18661), (274, 18727), (285, 18805), (290, 18850), (300, 18907), (316, 18970), (322, 19006), (328, 19021), (332, 19051), (333, 19057), (335, 19069), (337, 19078), (339, 19090),

Gene: Juicebox_19 Start: 17730, Stop: 19400, Start Num: 60
Candidate Starts for Juicebox_19:
(2, 17085), (3, 17160), (4, 17184), (18, 17439), (21, 17457), (26, 17586), (57, 17718), (Start: 60 @17730 has 10 MA's), (69, 17781), (78, 17826), (94, 17943), (129, 18159), (137, 18204), (139, 18213), (169, 18405), (178, 18459), (193, 18531), (225, 18732), (226, 18735), (233, 18762), (234,

18765), (237, 18801), (239, 18807), (243, 18831), (247, 18852), (249, 18861), (251, 18870), (252, 18873), (271, 18990), (281, 19065), (282, 19074), (320, 19260), (321, 19263), (330, 19302), (334, 19341), (344, 19395),

Gene: Kahlid_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for Kahlid_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563), (332, 18641),

Gene: KayGee_18 Start: 15418, Stop: 17112, Start Num: 61
Candidate Starts for KayGee_18:
(Start: 60 @15415 has 10 MA's), (Start: 61 @15418 has 42 MA's), (79, 15517), (85, 15559), (120, 15799), (133, 15886), (138, 15907), (140, 15916), (146, 15943), (152, 15988), (157, 16021), (159, 16036), (164, 16060), (167, 16093), (172, 16126), (174, 16138), (183, 16195), (190, 16225), (193, 16243), (198, 16273), (203, 16303), (214, 16366), (221, 16417), (230, 16453), (231, 16468), (235, 16486), (243, 16543), (245, 16552), (267, 16672), (269, 16684), (276, 16732), (282, 16783), (283, 16786), (286, 16804), (299, 16882), (303, 16909), (314, 16951), (342, 17098), (343, 17104),

Gene: Kiko_20 Start: 16705, Stop: 18399, Start Num: 63
Candidate Starts for Kiko_20:
(Start: 50 @16663 has 8 MA's), (Start: 55 @16675 has 27 MA's), (Start: 63 @16705 has 1 MA's), (88, 16858), (94, 16915), (96, 16933), (98, 16945), (101, 16966), (114, 17044), (132, 17152), (134, 17176), (140, 17200), (152, 17272), (160, 17323), (173, 17419), (179, 17449), (189, 17503), (192, 17509), (199, 17557), (220, 17683), (243, 17818), (244, 17824), (245, 17827), (258, 17893), (270, 17980), (283, 18076), (284, 18079), (286, 18094), (295, 18154), (319, 18253), (320, 18259), (336, 18346), (343, 18391),

Gene: Kingsolomon_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for Kingsolomon_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: KirDoubleO7_17 Start: 17382, Stop: 19145, Start Num: 41
Candidate Starts for KirDoubleO7_17:
(Start: 41 @17382 has 43 MA's), (49, 17409), (65, 17472), (75, 17520), (76, 17526), (83, 17562), (92, 17637), (107, 17724), (124, 17838), (126, 17850), (147, 17961), (168, 18105), (169, 18117), (172, 18135), (175, 18150), (207, 18339), (218, 18402), (222, 18435), (223, 18444), (224, 18453), (229, 18465), (241, 18540), (254, 18609), (256, 18621), (264, 18669), (274, 18735), (285, 18813), (287, 18831), (290, 18858), (298, 18903), (300, 18915), (316, 18978), (322, 19014), (328, 19029), (332, 19059), (333, 19065), (335, 19077), (337, 19086), (339, 19098),

Gene: KleverKiS_28 Start: 22309, Stop: 24087, Start Num: 36
Candidate Starts for KleverKiS_28:
(22, 22129), (Start: 36 @22309 has 3 MA's), (Start: 39 @22324 has 2 MA's), (Start: 47 @22351 has 16 MA's), (Start: 55 @22366 has 27 MA's), (64, 22405), (68, 22435), (70, 22441), (73, 22453), (90,

22558), (91, 22573), (98, 22612), (118, 22735), (119, 22744), (133, 22840), (143, 22882), (144, 22885), (169, 23062), (189, 23173), (194, 23200), (204, 23272), (205, 23281), (206, 23284), (208, 23296), (228, 23416), (229, 23419), (236, 23461), (240, 23491), (242, 23497), (262, 23617), (264, 23623), (328, 23977), (332, 24004), (335, 24022), (337, 24031),

Gene: Kropertea_18 Start: 16595, Stop: 18358, Start Num: 41
Candidate Starts for Kropertea_18:
(Start: 41 @16595 has 43 MA's), (76, 16736), (82, 16766), (91, 16844), (92, 16847), (123, 17045), (124, 17048), (126, 17060), (130, 17081), (149, 17189), (153, 17219), (169, 17327), (170, 17336), (176, 17375), (181, 17396), (207, 17552), (218, 17615), (223, 17657), (224, 17666), (229, 17678), (242, 17756), (264, 17882), (265, 17891), (269, 17915), (282, 18017), (285, 18026), (287, 18044), (290, 18071), (300, 18128), (316, 18191), (322, 18227), (328, 18242), (332, 18272), (337, 18299), (339, 18311), (342, 18332),

Gene: Krypton555_19 Start: 17311, Stop: 19074, Start Num: 41
Candidate Starts for Krypton555_19:
(Start: 41 @17311 has 43 MA's), (49, 17338), (65, 17401), (76, 17455), (83, 17491), (92, 17566), (96, 17590), (97, 17596), (107, 17653), (124, 17767), (126, 17779), (147, 17890), (168, 18034), (169, 18046), (207, 18268), (209, 18274), (218, 18331), (223, 18373), (224, 18382), (229, 18394), (241, 18469), (253, 18535), (256, 18550), (264, 18598), (274, 18664), (285, 18742), (290, 18787), (300, 18844), (316, 18907), (322, 18943), (328, 18958), (332, 18988), (333, 18994), (335, 19006), (337, 19015), (339, 19027),

Gene: Kudefre_27 Start: 21780, Stop: 23531, Start Num: 50
Candidate Starts for Kudefre_27:
(33, 21702), (45, 21765), (Start: 50 @21780 has 8 MA's), (59, 21804), (68, 21861), (75, 21888), (80, 21915), (84, 21933), (86, 21942), (87, 21945), (92, 22005), (104, 22080), (109, 22101), (112, 22140), (125, 22230), (130, 22254), (133, 22284), (146, 22341), (150, 22365), (164, 22458), (166, 22473), (167, 22482), (169, 22497), (170, 22506), (175, 22530), (178, 22551), (188, 22605), (192, 22623), (203, 22704), (205, 22716), (210, 22740), (229, 22854), (246, 22962), (252, 22986), (257, 23013), (264, 23058), (268, 23082), (275, 23133), (281, 23181), (285, 23199), (292, 23250), (297, 23286), (308, 23337), (310, 23343), (318, 23367), (326, 23406), (330, 23421), (332, 23448), (338, 23478), (340, 23490), (345, 23520),

Gene: Kumao_28 Start: 21466, Stop: 23190, Start Num: 46
Candidate Starts for Kumao_28:
(Start: 36 @21427 has 3 MA's), (Start: 46 @21466 has 1 MA's), (73, 21556), (98, 21718), (104, 21757), (105, 21760), (116, 21823), (119, 21850), (133, 21946), (143, 21988), (155, 22066), (161, 22108), (169, 22168), (172, 22186), (189, 22279), (205, 22384), (206, 22387), (207, 22396), (215, 22438), (229, 22522), (264, 22726), (266, 22738), (280, 22843), (294, 22942), (300, 22975), (310, 23014), (311, 23020), (324, 23068), (332, 23107), (333, 23113), (345, 23179),

Gene: Lauer_17 Start: 15467, Stop: 17161, Start Num: 61
Candidate Starts for Lauer_17:
(Start: 60 @15464 has 10 MA's), (Start: 61 @15467 has 42 MA's), (79, 15566), (85, 15608), (120, 15848), (133, 15935), (138, 15956), (140, 15965), (146, 15992), (152, 16037), (157, 16070), (159, 16085), (164, 16109), (167, 16142), (172, 16175), (174, 16187), (183, 16244), (190, 16274), (193, 16292), (198, 16322), (203, 16352), (214, 16415), (221, 16466), (230, 16502), (231, 16517), (235, 16535), (243, 16592), (245, 16601), (267, 16721), (269, 16733), (276, 16781), (282, 16832), (283, 16835), (286, 16853), (299, 16931), (303, 16958), (314, 17000), (342, 17147), (343, 17153),

Gene: LeBron_18 Start: 16772, Stop: 18541, Start Num: 41
Candidate Starts for LeBron_18:

(Start: 31 @16709 has 1 MA's), (34, 16730), (35, 16745), (Start: 41 @16772 has 43 MA's), (65, 16865), (75, 16913), (76, 16919), (81, 16946), (82, 16949), (83, 16955), (91, 17027), (94, 17036), (97, 17060), (100, 17075), (104, 17105), (124, 17231), (125, 17240), (128, 17261), (132, 17276), (145, 17345), (151, 17381), (153, 17402), (164, 17471), (169, 17510), (194, 17648), (197, 17660), (207, 17735), (209, 17741), (211, 17759), (218, 17798), (222, 17831), (223, 17840), (224, 17849), (228, 17858), (249, 17981), (256, 18017), (264, 18065), (266, 18077), (274, 18131), (287, 18227), (288, 18245), (289, 18251), (290, 18254), (296, 18287), (300, 18311), (316, 18374), (325, 18416), (332, 18455), (335, 18473), (339, 18494), (342, 18515),

Gene: Lewan_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Lewan_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: LilDestine_18 Start: 16988, Stop: 18721, Start Num: 54
Candidate Starts for LilDestine_18:
(Start: 54 @16988 has 32 MA's), (68, 17057), (91, 17198), (92, 17201), (100, 17246), (105, 17279), (107, 17288), (112, 17324), (120, 17378), (124, 17405), (126, 17417), (133, 17468), (134, 17474), (142, 17507), (166, 17660), (169, 17684), (170, 17693), (178, 17738), (181, 17753), (194, 17831), (212, 17951), (222, 18014), (236, 18086), (242, 18122), (262, 18242), (264, 18248), (266, 18260), (275, 18323), (281, 18374), (287, 18410), (290, 18437), (302, 18506), (307, 18521), (308, 18533), (316, 18557), (332, 18635),

Gene: LilJank_28 Start: 23660, Stop: 25402, Start Num: 50
Candidate Starts for LilJank_28:
(33, 23582), (45, 23645), (Start: 50 @23660 has 8 MA's), (58, 23672), (62, 23690), (68, 23732), (75, 23759), (87, 23816), (92, 23876), (104, 23951), (105, 23954), (107, 23963), (109, 23972), (112, 24011), (113, 24014), (121, 24068), (123, 24089), (130, 24125), (133, 24155), (147, 24215), (148, 24221), (155, 24275), (166, 24344), (167, 24353), (169, 24368), (188, 24476), (191, 24482), (210, 24608), (223, 24701), (229, 24722), (230, 24725), (241, 24797), (246, 24830), (251, 24851), (262, 24920), (264, 24926), (265, 24935), (281, 25052), (282, 25061), (292, 25121), (297, 25157), (300, 25172), (308, 25208), (310, 25214), (326, 25277), (332, 25319), (337, 25346), (340, 25361), (345, 25391),

Gene: Lilbit_49 Start: 27401, Stop: 29113, Start Num: 55
Candidate Starts for Lilbit_49:
(38, 27338), (Start: 55 @27401 has 27 MA's), (71, 27482), (82, 27539), (92, 27620), (94, 27626), (103, 27683), (104, 27695), (107, 27707), (113, 27746), (115, 27761), (125, 27830), (133, 27884), (135, 27893), (162, 28049), (169, 28097), (170, 28106), (172, 28115), (179, 28154), (182, 28169), (194, 28232), (197, 28244), (215, 28361), (216, 28364), (222, 28415), (227, 28442), (229, 28445), (232, 28466), (238, 28508), (260, 28628), (264, 28646), (285, 28790), (290, 28835), (293, 28853), (310, 28937), (312, 28946), (320, 28964), (323, 28985), (332, 29030), (333, 29036), (335, 29048), (338, 29060), (340, 29072), (343, 29096), (345, 29102),

Gene: LilhomieP_27 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for LilhomieP_27:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208,

23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: LittleLaf_50 Start: 27130, Stop: 28842, Start Num: 55
Candidate Starts for LittleLaf_50:
(38, 27067), (Start: 55 @27130 has 27 MA's), (71, 27211), (82, 27268), (92, 27349), (94, 27355), (103, 27412), (104, 27424), (107, 27436), (113, 27475), (115, 27490), (125, 27559), (133, 27613), (135, 27622), (162, 27778), (169, 27826), (170, 27835), (172, 27844), (179, 27883), (182, 27898), (194, 27961), (197, 27973), (215, 28090), (216, 28093), (222, 28144), (227, 28171), (229, 28174), (232, 28195), (238, 28237), (260, 28357), (264, 28375), (285, 28519), (290, 28564), (293, 28582), (310, 28666), (312, 28675), (320, 28693), (323, 28714), (332, 28759), (333, 28765), (335, 28777), (338, 28789), (340, 28801), (343, 28825), (345, 28831),

Gene: LiyuLake_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for LiyuLake_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (172, 18126), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (298, 18894), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: Loadrie_18 Start: 17021, Stop: 18754, Start Num: 54
Candidate Starts for Loadrie_18:
(Start: 54 @17021 has 32 MA's), (68, 17090), (91, 17231), (92, 17234), (100, 17279), (105, 17312), (107, 17321), (112, 17357), (120, 17411), (124, 17438), (126, 17450), (133, 17501), (134, 17507), (142, 17540), (166, 17693), (169, 17717), (170, 17726), (178, 17771), (181, 17786), (194, 17864), (212, 17984), (222, 18047), (236, 18119), (242, 18155), (262, 18275), (264, 18281), (266, 18293), (275, 18356), (287, 18443), (290, 18470), (302, 18539), (307, 18554), (308, 18566), (316, 18590), (332, 18668),

Gene: Lolly9_19 Start: 17191, Stop: 18954, Start Num: 41
Candidate Starts for Lolly9_19:
(Start: 41 @17191 has 43 MA's), (49, 17218), (65, 17281), (75, 17329), (76, 17335), (83, 17371), (92, 17446), (96, 17470), (97, 17476), (107, 17533), (124, 17647), (126, 17659), (147, 17770), (168, 17914), (169, 17926), (207, 18148), (209, 18154), (218, 18211), (223, 18253), (224, 18262), (229, 18274), (241, 18349), (253, 18415), (255, 18427), (256, 18430), (264, 18478), (274, 18544), (285, 18622), (290, 18667), (298, 18712), (300, 18724), (316, 18787), (322, 18823), (328, 18838), (332, 18868), (333, 18874), (335, 18886), (337, 18895), (339, 18907),

Gene: Lumos_19 Start: 17370, Stop: 19133, Start Num: 41
Candidate Starts for Lumos_19:
(Start: 41 @17370 has 43 MA's), (49, 17397), (65, 17460), (75, 17508), (76, 17514), (83, 17550), (92, 17625), (96, 17649), (97, 17655), (107, 17712), (124, 17826), (126, 17838), (147, 17949), (168, 18093), (169, 18105), (175, 18138), (207, 18327), (209, 18333), (218, 18390), (223, 18432), (224, 18441), (229, 18453), (241, 18528), (254, 18597), (256, 18609), (264, 18657), (274, 18723), (285, 18801), (290, 18846), (300, 18903), (316, 18966), (322, 19002), (328, 19017), (332, 19047), (333, 19053), (335, 19065), (337, 19074), (339, 19086),

Gene: Lynnae_18 Start: 16977, Stop: 18710, Start Num: 54
Candidate Starts for Lynnae_18:
(Start: 54 @16977 has 32 MA's), (68, 17046), (91, 17187), (92, 17190), (100, 17235), (105, 17268), (107, 17277), (112, 17313), (120, 17367), (124, 17394), (126, 17406), (133, 17457), (134, 17463),

(142, 17496), (166, 17649), (169, 17673), (170, 17682), (178, 17727), (181, 17742), (194, 17820), (212, 17940), (222, 18003), (236, 18075), (242, 18111), (262, 18231), (264, 18237), (266, 18249), (275, 18312), (287, 18399), (290, 18426), (302, 18495), (307, 18510), (308, 18522), (316, 18546), (332, 18624),

Gene: MAckerman_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for MAckerman_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: MAnor_18 Start: 15425, Stop: 17119, Start Num: 61
Candidate Starts for MAnor_18:
(Start: 60 @15422 has 10 MA's), (Start: 61 @15425 has 42 MA's), (79, 15524), (80, 15536), (85, 15566), (89, 15587), (104, 15704), (120, 15806), (133, 15893), (140, 15923), (146, 15950), (152, 15995), (155, 16013), (157, 16028), (159, 16043), (167, 16100), (172, 16133), (174, 16145), (180, 16175), (190, 16232), (193, 16250), (198, 16280), (203, 16310), (214, 16373), (221, 16424), (230, 16460), (231, 16475), (235, 16493), (243, 16550), (267, 16679), (269, 16691), (282, 16790), (283, 16793), (286, 16811), (299, 16889), (303, 16916), (314, 16958), (342, 17105), (343, 17111),

Gene: MScarn_20 Start: 15365, Stop: 17062, Start Num: 61
Candidate Starts for MScarn_20:
(Start: 50 @15335 has 8 MA's), (Start: 60 @15362 has 10 MA's), (Start: 61 @15365 has 42 MA's), (93, 15575), (119, 15743), (120, 15749), (131, 15809), (138, 15857), (140, 15866), (146, 15893), (151, 15923), (152, 15938), (157, 15971), (158, 15983), (165, 16019), (172, 16076), (174, 16088), (197, 16208), (200, 16229), (203, 16253), (230, 16403), (231, 16418), (235, 16436), (243, 16493), (267, 16622), (269, 16634), (272, 16652), (273, 16661), (282, 16733), (283, 16736), (285, 16742), (286, 16754), (303, 16859), (306, 16868), (314, 16901),

Gene: Malvina_20 Start: 16595, Stop: 18286, Start Num: 61
Candidate Starts for Malvina_20:
(Start: 50 @16562 has 8 MA's), (Start: 61 @16595 has 42 MA's), (Start: 63 @16607 has 1 MA's), (80, 16709), (85, 16739), (115, 16943), (120, 16979), (127, 17021), (133, 17066), (152, 17168), (157, 17201), (158, 17213), (159, 17216), (167, 17273), (172, 17306), (175, 17321), (180, 17348), (185, 17387), (195, 17429), (197, 17438), (203, 17483), (207, 17507), (214, 17546), (231, 17642), (234, 17651), (235, 17660), (243, 17717), (246, 17735), (261, 17810), (269, 17858), (271, 17873), (273, 17885), (282, 17957), (283, 17960), (284, 17963), (285, 17966), (299, 18056), (303, 18083), (314, 18125), (317, 18134), (320, 18143),

Gene: Marvin_48 Start: 27400, Stop: 29112, Start Num: 55
Candidate Starts for Marvin_48:
(38, 27337), (Start: 55 @27400 has 27 MA's), (71, 27481), (82, 27538), (92, 27619), (94, 27625), (103, 27682), (104, 27694), (107, 27706), (113, 27745), (115, 27760), (125, 27829), (133, 27883), (135, 27892), (162, 28048), (169, 28096), (170, 28105), (172, 28114), (179, 28153), (182, 28168), (194, 28231), (197, 28243), (215, 28360), (216, 28363), (222, 28414), (227, 28441), (229, 28444), (232, 28465), (238, 28507), (260, 28627), (264, 28645), (285, 28789), (290, 28834), (293, 28852), (310, 28936), (320, 28963), (323, 28984), (332, 29029), (333, 29035), (335, 29047), (338, 29059), (341, 29080), (343, 29095), (345, 29101),

Gene: MaryV_40 Start: 25250, Stop: 27634, Start Num: 1
Candidate Starts for MaryV_40:
(Start: 1 @25250 has 5 MA's), (5, 25367), (6, 25388), (7, 25391), (8, 25421), (9, 25427), (10, 25436), (15, 25526), (16, 25562), (17, 25580), (19, 25607), (20, 25619), (22, 25628), (24, 25691), (25, 25727), (27, 25763), (28, 25766), (30, 25772), (43, 25844), (53, 25874), (67, 25943), (68, 25946), (81, 26033), (85, 26051), (86, 26054), (91, 26114), (98, 26153), (105, 26195), (107, 26204), (108, 26210), (111, 26225), (112, 26240), (119, 26288), (133, 26384), (143, 26426), (144, 26429), (169, 26606), (172, 26624), (175, 26639), (176, 26654), (181, 26675), (186, 26708), (189, 26717), (193, 26747), (201, 26786), (205, 26828), (207, 26840), (208, 26843), (218, 26903), (228, 26963), (236, 27008), (242, 27044), (254, 27110), (262, 27164), (264, 27170), (274, 27236), (298, 27407), (304, 27431), (332, 27551), (336, 27572), (338, 27581), (343, 27617),

Gene: Mayweather_19 Start: 16040, Stop: 17734, Start Num: 61
Candidate Starts for Mayweather_19:
(Start: 60 @16037 has 10 MA's), (Start: 61 @16040 has 42 MA's), (79, 16139), (85, 16181), (89, 16202), (104, 16319), (120, 16421), (133, 16508), (140, 16538), (146, 16565), (152, 16610), (155, 16628), (157, 16643), (159, 16658), (167, 16715), (172, 16748), (174, 16760), (180, 16790), (190, 16847), (193, 16865), (198, 16895), (203, 16925), (206, 16940), (214, 16988), (221, 17039), (230, 17075), (231, 17090), (235, 17108), (243, 17165), (267, 17294), (269, 17306), (282, 17405), (283, 17408), (286, 17426), (295, 17486), (299, 17504), (303, 17531), (314, 17573), (342, 17720), (343, 17726),

Gene: McDazzle_17 Start: 15887, Stop: 17581, Start Num: 61
Candidate Starts for McDazzle_17:
(Start: 60 @15884 has 10 MA's), (Start: 61 @15887 has 42 MA's), (79, 15986), (85, 16028), (89, 16049), (120, 16268), (140, 16385), (146, 16412), (152, 16457), (153, 16463), (155, 16475), (157, 16490), (159, 16505), (167, 16562), (172, 16595), (174, 16607), (190, 16694), (193, 16712), (198, 16742), (203, 16772), (206, 16787), (214, 16835), (221, 16886), (230, 16922), (231, 16937), (235, 16955), (243, 17012), (267, 17141), (269, 17153), (276, 17201), (282, 17252), (283, 17255), (286, 17273), (299, 17351), (303, 17378), (314, 17420), (342, 17567), (343, 17573),

Gene: Mendokysei_18 Start: 16790, Stop: 18496, Start Num: 55
Candidate Starts for Mendokysei_18:
(11, 16388), (12, 16403), (13, 16412), (14, 16436), (23, 16583), (29, 16682), (40, 16745), (Start: 55 @16790 has 27 MA's), (68, 16856), (96, 17021), (99, 17036), (105, 17075), (106, 17078), (112, 17120), (113, 17123), (122, 17189), (123, 17195), (159, 17411), (169, 17474), (184, 17564), (194, 17609), (204, 17675), (207, 17696), (208, 17699), (217, 17744), (238, 17885), (263, 18020), (264, 18023), (270, 18062), (290, 18212), (296, 18248), (331, 18392), (332, 18413), (337, 18440), (343, 18479),

Gene: Miley16_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Miley16_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: MiniLon_19 Start: 17191, Stop: 18954, Start Num: 41
Candidate Starts for MiniLon_19:

(Start: 41 @17191 has 43 MA's), (49, 17218), (65, 17281), (75, 17329), (76, 17335), (83, 17371), (92, 17446), (96, 17470), (97, 17476), (107, 17533), (124, 17647), (126, 17659), (147, 17770), (168, 17914), (169, 17926), (207, 18148), (209, 18154), (218, 18211), (223, 18253), (224, 18262), (229, 18274), (241, 18349), (253, 18415), (255, 18427), (256, 18430), (264, 18478), (274, 18544), (285, 18622), (290, 18667), (298, 18712), (300, 18724), (316, 18787), (322, 18823), (328, 18838), (332, 18868), (333, 18874), (335, 18886), (337, 18895), (339, 18907),

Gene: MiniMac_19 Start: 17192, Stop: 18955, Start Num: 41
Candidate Starts for MiniMac_19:
(Start: 41 @17192 has 43 MA's), (49, 17219), (65, 17282), (75, 17330), (76, 17336), (83, 17372), (92, 17447), (96, 17471), (97, 17477), (107, 17534), (124, 17648), (126, 17660), (147, 17771), (168, 17915), (169, 17927), (207, 18149), (209, 18155), (218, 18212), (223, 18254), (224, 18263), (229, 18275), (241, 18350), (253, 18416), (255, 18428), (256, 18431), (264, 18479), (274, 18545), (285, 18623), (290, 18668), (298, 18713), (300, 18725), (316, 18788), (322, 18824), (328, 18839), (332, 18869), (333, 18875), (335, 18887), (337, 18896), (339, 18908),

Gene: MkaliMitinis3_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for MkaliMitinis3_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Molivier_18 Start: 16995, Stop: 18728, Start Num: 54
Candidate Starts for Molivier_18:
(Start: 54 @16995 has 32 MA's), (68, 17064), (91, 17205), (92, 17208), (100, 17253), (105, 17286), (107, 17295), (112, 17331), (120, 17385), (124, 17412), (126, 17424), (133, 17475), (134, 17481), (142, 17514), (166, 17667), (169, 17691), (170, 17700), (178, 17745), (181, 17760), (194, 17838), (212, 17958), (222, 18021), (236, 18093), (242, 18129), (262, 18249), (264, 18255), (266, 18267), (275, 18330), (287, 18417), (290, 18444), (296, 18477), (302, 18513), (307, 18528), (308, 18540), (316, 18564), (332, 18642),

Gene: Moostard_19 Start: 17376, Stop: 19139, Start Num: 41
Candidate Starts for Moostard_19:
(Start: 41 @17376 has 43 MA's), (49, 17403), (65, 17466), (75, 17514), (76, 17520), (83, 17556), (92, 17631), (96, 17655), (97, 17661), (107, 17718), (124, 17832), (126, 17844), (147, 17955), (168, 18099), (169, 18111), (175, 18144), (176, 18159), (207, 18333), (209, 18339), (218, 18396), (223, 18438), (224, 18447), (229, 18459), (241, 18534), (254, 18603), (256, 18615), (264, 18663), (274, 18729), (285, 18807), (290, 18852), (300, 18909), (316, 18972), (322, 19008), (328, 19023), (332, 19053), (333, 19059), (335, 19071), (337, 19080), (339, 19092),

Gene: MosMoris_48 Start: 26580, Stop: 28292, Start Num: 55
Candidate Starts for MosMoris_48:
(38, 26517), (Start: 55 @26580 has 27 MA's), (71, 26661), (82, 26718), (92, 26799), (94, 26805), (103, 26862), (104, 26874), (107, 26886), (113, 26925), (115, 26940), (125, 27009), (133, 27063), (135, 27072), (162, 27228), (169, 27276), (170, 27285), (172, 27294), (179, 27333), (182, 27348), (194, 27411), (197, 27423), (215, 27540), (216, 27543), (222, 27594), (227, 27621), (229, 27624), (232, 27645), (238, 27687), (260, 27807), (264, 27825), (285, 27969), (290, 28014), (293, 28032), (310, 28116), (312, 28125), (320, 28143), (323, 28164), (332, 28209), (333, 28215), (335, 28227), (338, 28239), (341, 28260), (343, 28275), (345, 28281),

Gene: MrMagoo_32 Start: 22870, Stop: 24651, Start Num: 36
Candidate Starts for MrMagoo_32:
(Start: 36 @22870 has 3 MA's), (Start: 39 @22885 has 2 MA's), (Start: 47 @22912 has 16 MA's), (66, 22990), (68, 22996), (73, 23014), (98, 23176), (100, 23185), (102, 23200), (117, 23287), (118, 23299), (119, 23308), (133, 23404), (136, 23416), (143, 23446), (144, 23449), (149, 23482), (167, 23611), (169, 23626), (172, 23644), (176, 23674), (204, 23836), (205, 23845), (207, 23857), (209, 23863), (223, 23962), (224, 23971), (228, 23980), (238, 24049), (257, 24142), (262, 24181), (264, 24187), (265, 24196), (328, 24541), (332, 24568), (333, 24574), (341, 24619),

Gene: MsGreen_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for MsGreen_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: MunkgeeRoachy_18 Start: 15780, Stop: 17477, Start Num: 61
Candidate Starts for MunkgeeRoachy_18:
(Start: 60 @15777 has 10 MA's), (Start: 61 @15780 has 42 MA's), (93, 15990), (110, 16089), (113, 16113), (120, 16164), (133, 16251), (140, 16281), (144, 16296), (146, 16308), (157, 16386), (158, 16398), (164, 16425), (167, 16458), (172, 16491), (174, 16503), (182, 16545), (203, 16668), (217, 16740), (230, 16818), (231, 16833), (235, 16851), (243, 16908), (261, 17001), (267, 17037), (269, 17049), (270, 17055), (272, 17067), (273, 17076), (282, 17148), (283, 17151), (285, 17157), (286, 17169), (295, 17229), (303, 17274), (306, 17283), (314, 17316), (331, 17382),

Gene: Nairb_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for Nairb_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343, 18669), (345, 18675),

Gene: Nanosmite_32 Start: 22784, Stop: 24520, Start Num: 47
Candidate Starts for Nanosmite_32:
(Start: 36 @22742 has 3 MA's), (Start: 39 @22757 has 2 MA's), (Start: 47 @22784 has 16 MA's), (Start: 55 @22799 has 27 MA's), (64, 22838), (68, 22868), (70, 22874), (73, 22886), (98, 23045), (114, 23144), (117, 23156), (118, 23168), (119, 23177), (125, 23219), (133, 23273), (143, 23315), (144, 23318), (166, 23471), (169, 23495), (181, 23564), (189, 23606), (202, 23675), (204, 23705), (205, 23714), (208, 23729), (215, 23768), (223, 23831), (224, 23840), (228, 23849), (238, 23918), (240, 23924), (242, 23930), (262, 24050), (264, 24056), (328, 24410), (332, 24437), (335, 24455), (337, 24464),

Gene: Nette_19 Start: 16799, Stop: 18505, Start Num: 55
Candidate Starts for Nette_19:
(11, 16397), (12, 16412), (13, 16421), (14, 16445), (23, 16592), (29, 16691), (40, 16754), (Start: 55 @16799 has 27 MA's), (68, 16865), (96, 17030), (99, 17045), (105, 17084), (106, 17087), (112, 17129), (113, 17132), (122, 17198), (123, 17204), (159, 17420), (169, 17483), (184, 17573), (194, 17618), (204, 17684), (207, 17705), (208, 17708), (217, 17753), (238, 17894), (263, 18029), (264, 18032), (270, 18071), (290, 18221), (296, 18257), (331, 18401), (332, 18422), (337, 18449), (343, 18488),

Gene: Netyap_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Netyap_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Neville_28 Start: 23300, Stop: 25042, Start Num: 50
Candidate Starts for Neville_28:
(33, 23222), (45, 23285), (Start: 50 @23300 has 8 MA's), (58, 23312), (62, 23330), (68, 23372), (75, 23399), (87, 23456), (92, 23516), (104, 23591), (105, 23594), (107, 23603), (109, 23612), (112, 23651), (113, 23654), (121, 23708), (123, 23729), (130, 23765), (133, 23795), (141, 23828), (147, 23855), (155, 23915), (166, 23984), (167, 23993), (169, 24008), (174, 24038), (191, 24122), (210, 24248), (223, 24341), (229, 24362), (230, 24365), (241, 24437), (246, 24470), (251, 24491), (262, 24560), (264, 24566), (265, 24575), (281, 24692), (282, 24701), (292, 24761), (297, 24797), (300, 24812), (308, 24848), (310, 24854), (326, 24917), (332, 24959), (337, 24986), (340, 25001), (345, 25031),

Gene: Nicholas_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for Nicholas_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: Nicholasp3_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for Nicholasp3_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563), (332, 18641),

Gene: Nina_19 Start: 16774, Stop: 18471, Start Num: 61
Candidate Starts for Nina_19:
(Start: 60 @16771 has 10 MA's), (Start: 61 @16774 has 42 MA's), (93, 16984), (113, 17107), (120, 17158), (133, 17245), (135, 17254), (140, 17275), (144, 17290), (146, 17302), (157, 17380), (158, 17392), (164, 17419), (167, 17452), (172, 17485), (174, 17497), (182, 17539), (203, 17662), (217, 17734), (230, 17812), (231, 17827), (235, 17845), (243, 17902), (261, 17995), (267, 18031), (269, 18043), (270, 18049), (272, 18061), (273, 18070), (282, 18142), (283, 18145), (285, 18151), (286, 18163), (295, 18223), (303, 18268), (306, 18277), (314, 18310), (331, 18376),

Gene: Octobien14_28 Start: 22738, Stop: 24489, Start Num: 50
Candidate Starts for Octobien14_28:
(45, 22723), (Start: 50 @22738 has 8 MA's), (58, 22759), (59, 22762), (68, 22819), (74, 22840), (75, 22846), (80, 22873), (84, 22891), (86, 22900), (87, 22903), (94, 22969), (95, 22975), (96, 22987), (104, 23038), (105, 23041), (109, 23059), (124, 23179), (132, 23224), (133, 23242), (147, 23302), (148, 23308), (150, 23323), (155, 23362), (164, 23416), (166, 23431), (167, 23440), (169, 23455), (170,

23464), (175, 23488), (178, 23509), (188, 23563), (192, 23581), (193, 23596), (194, 23599), (203, 23662), (205, 23674), (210, 23698), (216, 23731), (229, 23812), (246, 23920), (248, 23929), (252, 23944), (257, 23971), (264, 24016), (276, 24097), (285, 24157), (292, 24208), (297, 24244), (308, 24295), (310, 24301), (315, 24316), (318, 24325), (326, 24364), (330, 24379), (332, 24406), (338, 24436), (340, 24448), (345, 24478),

Gene: OhShagHennessy_18 Start: 16711, Stop: 18480, Start Num: 41
Candidate Starts for OhShagHennessy_18:
(Start: 31 @16648 has 1 MA's), (34, 16669), (35, 16684), (Start: 41 @16711 has 43 MA's), (65, 16804), (75, 16852), (76, 16858), (81, 16885), (83, 16894), (91, 16966), (94, 16975), (97, 16999), (100, 17014), (104, 17044), (124, 17170), (125, 17179), (128, 17200), (132, 17215), (145, 17284), (151, 17320), (153, 17341), (164, 17410), (169, 17449), (194, 17587), (197, 17599), (207, 17674), (209, 17680), (211, 17698), (218, 17737), (222, 17770), (223, 17779), (224, 17788), (228, 17797), (249, 17920), (256, 17956), (264, 18004), (266, 18016), (274, 18070), (287, 18166), (288, 18184), (289, 18190), (290, 18193), (296, 18226), (300, 18250), (316, 18313), (325, 18355), (332, 18394), (335, 18412), (339, 18433), (342, 18454),

Gene: OverPar_18 Start: 17021, Stop: 18754, Start Num: 54
Candidate Starts for OverPar_18:
(Start: 54 @17021 has 32 MA's), (68, 17090), (91, 17231), (92, 17234), (100, 17279), (105, 17312), (107, 17321), (112, 17357), (120, 17411), (124, 17438), (126, 17450), (133, 17501), (134, 17507), (142, 17540), (166, 17693), (169, 17717), (170, 17726), (178, 17771), (181, 17786), (194, 17864), (212, 17984), (222, 18047), (236, 18119), (242, 18155), (262, 18275), (264, 18281), (266, 18293), (275, 18356), (287, 18443), (290, 18470), (302, 18539), (307, 18554), (308, 18566), (316, 18590), (332, 18668),

Gene: PYPDinur_18 Start: 16572, Stop: 18335, Start Num: 41
Candidate Starts for PYPDinur_18:
(Start: 41 @16572 has 43 MA's), (76, 16713), (91, 16821), (92, 16824), (123, 17022), (124, 17025), (126, 17037), (130, 17058), (149, 17166), (153, 17196), (169, 17304), (175, 17337), (176, 17352), (181, 17373), (207, 17529), (218, 17592), (223, 17634), (224, 17643), (229, 17655), (236, 17697), (242, 17733), (264, 17859), (269, 17892), (282, 17994), (285, 18003), (287, 18021), (290, 18048), (300, 18105), (308, 18144), (316, 18168), (322, 18204), (328, 18219), (332, 18249), (337, 18276), (339, 18288), (342, 18309),

Gene: PegLeg_28 Start: 22367, Stop: 24103, Start Num: 47
Candidate Starts for PegLeg_28:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: Poise_50 Start: 26718, Stop: 28430, Start Num: 55
Candidate Starts for Poise_50:
(38, 26655), (Start: 55 @26718 has 27 MA's), (71, 26799), (82, 26856), (92, 26937), (94, 26943), (103, 27000), (104, 27012), (107, 27024), (113, 27063), (115, 27078), (125, 27147), (133, 27201), (135, 27210), (162, 27366), (169, 27414), (170, 27423), (172, 27432), (179, 27471), (182, 27486), (194, 27549), (197, 27561), (215, 27678), (216, 27681), (222, 27732), (227, 27759), (229, 27762), (232, 27783), (238, 27825), (260, 27945), (264, 27963), (285, 28107), (290, 28152), (293, 28170), (310, 28254), (312, 28263), (320, 28281), (323, 28302), (332, 28347), (333, 28353), (335, 28365), (338, 28377), (340, 28389), (343, 28413), (345, 28419),

Gene: Pons_18 Start: 15412, Stop: 17109, Start Num: 60
Candidate Starts for Pons_18:
(Start: 60 @15412 has 10 MA's), (Start: 61 @15415 has 42 MA's), (79, 15514), (85, 15556), (89, 15577), (104, 15694), (120, 15796), (133, 15883), (140, 15913), (146, 15940), (152, 15985), (155, 16003), (157, 16018), (159, 16033), (167, 16090), (172, 16123), (174, 16135), (180, 16165), (190, 16222), (193, 16240), (198, 16270), (203, 16300), (206, 16315), (214, 16363), (221, 16414), (230, 16450), (231, 16465), (235, 16483), (243, 16540), (267, 16669), (269, 16681), (282, 16780), (283, 16783), (286, 16801), (299, 16879), (303, 16906), (314, 16948), (342, 17095), (343, 17101),

Gene: Poochiewood_18 Start: 16704, Stop: 18515, Start Num: 34
Candidate Starts for Poochiewood_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: PotPie_18 Start: 16277, Stop: 17974, Start Num: 60
Candidate Starts for PotPie_18:
(Start: 60 @16277 has 10 MA's), (Start: 61 @16280 has 42 MA's), (79, 16379), (85, 16421), (120, 16661), (133, 16748), (138, 16769), (140, 16778), (146, 16805), (152, 16850), (157, 16883), (159, 16898), (164, 16922), (167, 16955), (172, 16988), (174, 17000), (183, 17057), (193, 17105), (198, 17135), (203, 17165), (206, 17180), (214, 17228), (221, 17279), (230, 17315), (231, 17330), (235, 17348), (243, 17405), (245, 17414), (267, 17534), (269, 17546), (276, 17594), (282, 17645), (283, 17648), (286, 17666), (299, 17744), (303, 17771), (314, 17813), (342, 17960), (343, 17966),

Gene: Pringar_50 Start: 27006, Stop: 28718, Start Num: 55
Candidate Starts for Pringar_50:
(38, 26943), (Start: 55 @27006 has 27 MA's), (71, 27087), (82, 27144), (92, 27225), (94, 27231), (103, 27288), (104, 27300), (107, 27312), (113, 27351), (115, 27366), (125, 27435), (133, 27489), (135, 27498), (162, 27654), (169, 27702), (170, 27711), (172, 27720), (179, 27759), (182, 27774), (194, 27837), (197, 27849), (215, 27966), (216, 27969), (222, 28020), (227, 28047), (229, 28050), (232, 28071), (238, 28113), (260, 28233), (264, 28251), (285, 28395), (290, 28440), (293, 28458), (310, 28542), (312, 28551), (320, 28569), (323, 28590), (332, 28635), (333, 28641), (335, 28653), (338, 28665), (340, 28677), (343, 28701), (345, 28707),

Gene: PsychoKiller_18 Start: 15729, Stop: 17429, Start Num: 60
Candidate Starts for PsychoKiller_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Quasar_18 Start: 16341, Stop: 18038, Start Num: 61
Candidate Starts for Quasar_18:
(Start: 60 @16338 has 10 MA's), (Start: 61 @16341 has 42 MA's), (93, 16551), (113, 16674), (120, 16725), (133, 16812), (135, 16821), (140, 16842), (144, 16857), (146, 16869), (157, 16947), (158,

16959), (164, 16986), (167, 17019), (172, 17052), (174, 17064), (203, 17229), (217, 17301), (230, 17379), (231, 17394), (235, 17412), (243, 17469), (261, 17562), (267, 17598), (269, 17610), (270, 17616), (272, 17628), (273, 17637), (282, 17709), (283, 17712), (285, 17718), (286, 17730), (295, 17790), (303, 17835), (306, 17844), (314, 17877), (331, 17943),

Gene: Quby_18 Start: 16580, Stop: 18343, Start Num: 41
Candidate Starts for Quby_18:
(Start: 41 @16580 has 43 MA's), (76, 16721), (91, 16829), (92, 16832), (123, 17030), (124, 17033), (126, 17045), (130, 17066), (149, 17174), (153, 17204), (169, 17312), (175, 17345), (176, 17360), (181, 17381), (207, 17537), (218, 17600), (223, 17642), (224, 17651), (236, 17705), (242, 17741), (264, 17867), (269, 17900), (282, 18002), (285, 18011), (287, 18029), (290, 18056), (300, 18113), (308, 18152), (316, 18176), (322, 18212), (328, 18227), (332, 18257), (337, 18284), (339, 18296), (342, 18317),

Gene: RADical_19 Start: 15730, Stop: 17430, Start Num: 60
Candidate Starts for RADical_19:
(Start: 60 @15730 has 10 MA's), (Start: 61 @15733 has 42 MA's), (93, 15943), (113, 16066), (120, 16117), (133, 16204), (135, 16213), (140, 16234), (144, 16249), (146, 16261), (157, 16339), (158, 16351), (164, 16378), (167, 16411), (172, 16444), (174, 16456), (182, 16498), (203, 16621), (217, 16693), (230, 16771), (231, 16786), (235, 16804), (243, 16861), (261, 16954), (267, 16990), (269, 17002), (270, 17008), (272, 17020), (273, 17029), (282, 17101), (283, 17104), (285, 17110), (286, 17122), (295, 17182), (303, 17227), (306, 17236), (314, 17269), (331, 17335),

Gene: RSchmailzl_19 Start: 15873, Stop: 17573, Start Num: 60
Candidate Starts for RSchmailzl_19:
(Start: 60 @15873 has 10 MA's), (Start: 61 @15876 has 42 MA's), (93, 16086), (113, 16209), (114, 16218), (120, 16260), (133, 16347), (135, 16356), (140, 16377), (144, 16392), (146, 16404), (157, 16482), (158, 16494), (164, 16521), (167, 16554), (172, 16587), (174, 16599), (182, 16641), (203, 16764), (217, 16836), (230, 16914), (231, 16929), (235, 16947), (243, 17004), (261, 17097), (267, 17133), (269, 17145), (270, 17151), (272, 17163), (273, 17172), (282, 17244), (283, 17247), (285, 17253), (286, 17265), (295, 17325), (303, 17370), (306, 17379), (314, 17412), (331, 17478),

Gene: Rabbitrun_30 Start: 23608, Stop: 25353, Start Num: 50
Candidate Starts for Rabbitrun_30:
(33, 23530), (45, 23593), (Start: 50 @23608 has 8 MA's), (62, 23638), (68, 23680), (92, 23824), (95, 23836), (98, 23860), (104, 23899), (105, 23902), (109, 23920), (121, 24016), (123, 24037), (130, 24073), (133, 24103), (141, 24136), (147, 24163), (155, 24223), (166, 24292), (167, 24301), (169, 24316), (174, 24346), (193, 24454), (204, 24526), (205, 24535), (229, 24673), (230, 24676), (236, 24715), (241, 24748), (246, 24781), (248, 24790), (251, 24802), (257, 24832), (262, 24871), (264, 24877), (265, 24886), (282, 25012), (292, 25072), (297, 25108), (300, 25123), (308, 25159), (310, 25165), (312, 25174), (326, 25228), (332, 25270), (337, 25297), (340, 25312), (342, 25330), (345, 25342),

Gene: Raela_50 Start: 27273, Stop: 28985, Start Num: 55
Candidate Starts for Raela_50:
(38, 27210), (Start: 55 @27273 has 27 MA's), (71, 27354), (82, 27411), (92, 27492), (94, 27498), (103, 27555), (104, 27567), (107, 27579), (113, 27618), (115, 27633), (125, 27702), (133, 27756), (135, 27765), (162, 27921), (169, 27969), (172, 27987), (179, 28026), (182, 28041), (194, 28104), (197, 28116), (215, 28233), (216, 28236), (222, 28287), (227, 28314), (229, 28317), (232, 28338), (238, 28380), (260, 28500), (264, 28518), (285, 28662), (290, 28707), (293, 28725), (310, 28809), (320, 28836), (323, 28857), (332, 28902), (333, 28908), (335, 28920), (338, 28932), (340, 28944), (343, 28968), (345, 28974),

Gene: Red305_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for Red305_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: RedBaron_20 Start: 15776, Stop: 17473, Start Num: 61
Candidate Starts for RedBaron_20:
(Start: 50 @15746 has 8 MA's), (Start: 60 @15773 has 10 MA's), (Start: 61 @15776 has 42 MA's), (93, 15986), (113, 16109), (120, 16160), (133, 16247), (144, 16292), (146, 16304), (157, 16382), (158, 16394), (164, 16421), (167, 16454), (172, 16487), (174, 16499), (182, 16541), (203, 16664), (217, 16736), (230, 16814), (231, 16829), (235, 16847), (243, 16904), (261, 16997), (267, 17033), (269, 17045), (270, 17051), (272, 17063), (273, 17072), (282, 17144), (283, 17147), (285, 17153), (286, 17165), (295, 17225), (303, 17270), (306, 17279), (314, 17312), (331, 17378),

Gene: RedRaider77_50 Start: 27174, Stop: 28886, Start Num: 55
Candidate Starts for RedRaider77_50:
(38, 27111), (Start: 55 @27174 has 27 MA's), (71, 27255), (82, 27312), (92, 27393), (94, 27399), (103, 27456), (104, 27468), (107, 27480), (113, 27519), (115, 27534), (125, 27603), (133, 27657), (135, 27666), (162, 27822), (169, 27870), (170, 27879), (172, 27888), (179, 27927), (182, 27942), (194, 28005), (197, 28017), (215, 28134), (216, 28137), (222, 28188), (227, 28215), (229, 28218), (232, 28239), (238, 28281), (260, 28401), (264, 28419), (285, 28563), (290, 28608), (293, 28626), (310, 28710), (312, 28719), (320, 28737), (323, 28758), (332, 28803), (333, 28809), (335, 28821), (338, 28833), (341, 28854), (343, 28869), (345, 28875),

Gene: Reindeer_26 Start: 22192, Stop: 23928, Start Num: 48
Candidate Starts for Reindeer_26:
(Start: 48 @22192 has 1 MA's), (Start: 55 @22207 has 27 MA's), (68, 22276), (73, 22294), (81, 22333), (90, 22399), (91, 22414), (98, 22453), (107, 22504), (111, 22525), (118, 22576), (119, 22585), (126, 22630), (132, 22663), (133, 22681), (143, 22723), (144, 22726), (159, 22837), (169, 22903), (189, 23014), (194, 23041), (202, 23083), (204, 23113), (205, 23122), (206, 23125), (207, 23134), (208, 23137), (217, 23182), (224, 23248), (228, 23257), (229, 23260), (236, 23302), (240, 23332), (242, 23338), (254, 23404), (262, 23458), (264, 23464), (274, 23530), (328, 23818), (332, 23845), (335, 23863), (337, 23872), (339, 23884), (343, 23911),

Gene: Rey_32 Start: 23117, Stop: 24883, Start Num: 39
Candidate Starts for Rey_32:
(Start: 36 @23102 has 3 MA's), (Start: 39 @23117 has 2 MA's), (Start: 47 @23144 has 16 MA's), (66, 23222), (68, 23228), (70, 23234), (73, 23246), (91, 23369), (98, 23408), (100, 23417), (102, 23432), (117, 23519), (118, 23531), (119, 23540), (126, 23585), (133, 23636), (143, 23678), (144, 23681), (149, 23714), (155, 23756), (156, 23765), (167, 23843), (169, 23858), (172, 23876), (204, 24068), (205, 24077), (207, 24089), (209, 24095), (223, 24194), (224, 24203), (228, 24212), (234, 24242), (238, 24281), (257, 24374), (262, 24413), (264, 24419), (265, 24428), (327, 24767), (328, 24773), (332, 24800), (341, 24851),

Gene: RonRayGun_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for RonRayGun_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343,

18669), (345, 18675),

Gene: Rose5_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for Rose5_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: RoseMarie_29 Start: 24200, Stop: 25966, Start Num: 37
Candidate Starts for RoseMarie_29:
(34, 24179), (37, 24200), (Start: 39 @24212 has 2 MA's), (64, 24284), (68, 24314), (70, 24320), (73, 24332), (80, 24365), (90, 24437), (91, 24452), (98, 24491), (118, 24614), (119, 24623), (125, 24665), (133, 24719), (136, 24731), (143, 24761), (144, 24764), (159, 24875), (164, 24902), (169, 24941), (189, 25052), (194, 25079), (204, 25151), (205, 25160), (206, 25163), (208, 25175), (224, 25286), (228, 25295), (229, 25298), (236, 25340), (240, 25370), (242, 25376), (262, 25496), (264, 25502), (328, 25856), (332, 25883), (335, 25901), (337, 25910),

Gene: Rossetti_18 Start: 17009, Stop: 18742, Start Num: 54
Candidate Starts for Rossetti_18:
(Start: 54 @17009 has 32 MA's), (68, 17078), (91, 17219), (92, 17222), (97, 17252), (100, 17267), (105, 17300), (107, 17309), (112, 17345), (120, 17399), (124, 17426), (133, 17489), (134, 17495), (142, 17528), (166, 17681), (169, 17705), (170, 17714), (178, 17759), (181, 17774), (194, 17852), (212, 17972), (222, 18035), (236, 18107), (242, 18143), (262, 18263), (264, 18269), (266, 18281), (275, 18344), (287, 18431), (290, 18458), (302, 18527), (307, 18542), (316, 18578), (332, 18656), (335, 18674),

Gene: Rumpelstiltskin_18 Start: 16995, Stop: 18728, Start Num: 54
Candidate Starts for Rumpelstiltskin_18:
(Start: 54 @16995 has 32 MA's), (68, 17064), (91, 17205), (92, 17208), (100, 17253), (105, 17286), (107, 17295), (112, 17331), (120, 17385), (124, 17412), (126, 17424), (133, 17475), (134, 17481), (142, 17514), (166, 17667), (169, 17691), (170, 17700), (178, 17745), (181, 17760), (194, 17838), (212, 17958), (222, 18021), (236, 18093), (242, 18129), (262, 18249), (264, 18255), (266, 18267), (275, 18330), (281, 18381), (287, 18417), (290, 18444), (302, 18513), (307, 18528), (308, 18540), (316, 18564), (332, 18642),

Gene: Samty_19 Start: 17376, Stop: 19139, Start Num: 41
Candidate Starts for Samty_19:
(Start: 41 @17376 has 43 MA's), (49, 17403), (65, 17466), (75, 17514), (76, 17520), (83, 17556), (92, 17631), (96, 17655), (97, 17661), (107, 17718), (124, 17832), (126, 17844), (147, 17955), (168, 18099), (169, 18111), (175, 18144), (176, 18159), (207, 18333), (209, 18339), (218, 18396), (223, 18438), (224, 18447), (229, 18459), (241, 18534), (254, 18603), (256, 18615), (264, 18663), (274, 18729), (285, 18807), (290, 18852), (300, 18909), (316, 18972), (322, 19008), (328, 19023), (332, 19053), (333, 19059), (335, 19071), (337, 19080), (339, 19092),

Gene: Sarshaun_18 Start: 17022, Stop: 18755, Start Num: 54
Candidate Starts for Sarshaun_18:
(Start: 54 @17022 has 32 MA's), (68, 17091), (91, 17232), (92, 17235), (100, 17280), (105, 17313), (107, 17322), (112, 17358), (120, 17412), (124, 17439), (126, 17451), (133, 17502), (134, 17508),

(142, 17541), (166, 17694), (169, 17718), (170, 17727), (178, 17772), (181, 17787), (194, 17865), (212, 17985), (222, 18048), (236, 18120), (242, 18156), (262, 18276), (264, 18282), (266, 18294), (275, 18357), (287, 18444), (290, 18471), (302, 18540), (307, 18555), (308, 18567), (316, 18591), (332, 18669),

Gene: Sephiroth_28 Start: 21951, Stop: 23702, Start Num: 50
Candidate Starts for Sephiroth_28:
(45, 21936), (Start: 50 @21951 has 8 MA's), (58, 21972), (59, 21975), (68, 22032), (74, 22053), (75, 22059), (80, 22086), (84, 22104), (86, 22113), (87, 22116), (92, 22176), (104, 22251), (109, 22272), (112, 22311), (133, 22455), (147, 22515), (148, 22521), (150, 22536), (155, 22575), (166, 22644), (167, 22653), (169, 22668), (170, 22677), (175, 22701), (178, 22722), (188, 22776), (192, 22794), (203, 22875), (205, 22887), (210, 22911), (229, 23025), (246, 23133), (252, 23157), (257, 23184), (264, 23229), (275, 23304), (276, 23310), (285, 23370), (292, 23421), (297, 23457), (308, 23508), (310, 23514), (318, 23538), (326, 23577), (330, 23592), (332, 23619), (338, 23649), (340, 23661), (345, 23691),

Gene: SheckWes_17 Start: 15415, Stop: 17109, Start Num: 61
Candidate Starts for SheckWes_17:
(Start: 60 @15412 has 10 MA's), (Start: 61 @15415 has 42 MA's), (79, 15514), (85, 15556), (89, 15577), (104, 15694), (120, 15796), (133, 15883), (140, 15913), (146, 15940), (152, 15985), (155, 16003), (157, 16018), (159, 16033), (167, 16090), (172, 16123), (174, 16135), (190, 16222), (193, 16240), (198, 16270), (203, 16300), (206, 16315), (214, 16363), (221, 16414), (230, 16450), (231, 16465), (235, 16483), (243, 16540), (267, 16669), (269, 16681), (282, 16780), (283, 16783), (286, 16801), (299, 16879), (303, 16906), (314, 16948), (342, 17095), (343, 17101),

Gene: Sheng711_18 Start: 16572, Stop: 18335, Start Num: 41
Candidate Starts for Sheng711_18:
(Start: 41 @16572 has 43 MA's), (76, 16713), (91, 16821), (92, 16824), (123, 17022), (124, 17025), (126, 17037), (130, 17058), (149, 17166), (153, 17196), (169, 17304), (175, 17337), (176, 17352), (181, 17373), (207, 17529), (218, 17592), (223, 17634), (224, 17643), (229, 17655), (236, 17697), (242, 17733), (264, 17859), (269, 17892), (282, 17994), (285, 18003), (287, 18021), (290, 18048), (300, 18105), (308, 18144), (316, 18168), (322, 18204), (328, 18219), (332, 18249), (337, 18276), (339, 18288), (342, 18309),

Gene: Silverleaf_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for Silverleaf_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: SketchMex_17 Start: 15377, Stop: 17077, Start Num: 60
Candidate Starts for SketchMex_17:
(Start: 50 @15350 has 8 MA's), (Start: 60 @15377 has 10 MA's), (Start: 61 @15380 has 42 MA's), (93, 15590), (119, 15758), (120, 15764), (138, 15872), (140, 15881), (146, 15908), (151, 15938), (152, 15953), (157, 15986), (158, 15998), (165, 16034), (172, 16091), (174, 16103), (203, 16268), (230, 16418), (231, 16433), (235, 16451), (243, 16508), (267, 16637), (269, 16649), (272, 16667), (273, 16676), (282, 16748), (283, 16751), (285, 16757), (286, 16769), (303, 16874), (306, 16883), (314, 16916),

Gene: Skinny_29 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for Skinny_29:
(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: SlimJimmy_27 Start: 22354, Stop: 24090, Start Num: 47
Candidate Starts for SlimJimmy_27:
(22, 22132), (Start: 36 @22312 has 3 MA's), (Start: 39 @22327 has 2 MA's), (Start: 47 @22354 has 16 MA's), (Start: 55 @22369 has 27 MA's), (64, 22408), (68, 22438), (70, 22444), (73, 22456), (90, 22561), (91, 22576), (98, 22615), (118, 22738), (119, 22747), (133, 22843), (143, 22885), (144, 22888), (169, 23065), (189, 23176), (194, 23203), (204, 23275), (205, 23284), (206, 23287), (208, 23299), (228, 23419), (229, 23422), (236, 23464), (240, 23494), (242, 23500), (262, 23620), (264, 23626), (328, 23980), (332, 24007), (335, 24025), (337, 24034),

Gene: Snenia_19 Start: 17374, Stop: 19137, Start Num: 41
Candidate Starts for Snenia_19:
(Start: 41 @17374 has 43 MA's), (49, 17401), (65, 17464), (75, 17512), (76, 17518), (83, 17554), (92, 17629), (96, 17653), (97, 17659), (107, 17716), (124, 17830), (126, 17842), (147, 17953), (168, 18097), (169, 18109), (175, 18142), (207, 18331), (209, 18337), (218, 18394), (223, 18436), (224, 18445), (229, 18457), (241, 18532), (254, 18601), (256, 18613), (264, 18661), (274, 18727), (285, 18805), (290, 18850), (300, 18907), (316, 18970), (322, 19006), (328, 19021), (332, 19051), (333, 19057), (335, 19069), (337, 19078), (339, 19090),

Gene: SoJulia_18 Start: 16988, Stop: 18721, Start Num: 54
Candidate Starts for SoJulia_18:
(Start: 54 @16988 has 32 MA's), (68, 17057), (91, 17198), (92, 17201), (100, 17246), (105, 17279), (107, 17288), (112, 17324), (120, 17378), (124, 17405), (126, 17417), (133, 17468), (134, 17474), (142, 17507), (166, 17660), (169, 17684), (170, 17693), (178, 17738), (181, 17753), (194, 17831), (212, 17951), (222, 18014), (236, 18086), (242, 18122), (262, 18242), (264, 18248), (266, 18260), (275, 18323), (287, 18410), (290, 18437), (302, 18506), (307, 18521), (308, 18533), (316, 18557), (332, 18635),

Gene: Soap141_18 Start: 17022, Stop: 18755, Start Num: 54
Candidate Starts for Soap141_18:
(Start: 54 @17022 has 32 MA's), (68, 17091), (91, 17232), (92, 17235), (100, 17280), (105, 17313), (107, 17322), (112, 17358), (120, 17412), (124, 17439), (126, 17451), (133, 17502), (134, 17508), (142, 17541), (166, 17694), (169, 17718), (170, 17727), (178, 17772), (181, 17787), (194, 17865), (212, 17985), (222, 18048), (236, 18120), (242, 18156), (262, 18276), (264, 18282), (266, 18294), (275, 18357), (287, 18444), (290, 18471), (302, 18540), (307, 18555), (308, 18567), (316, 18591), (332, 18669),

Gene: Socotra_19 Start: 15732, Stop: 17429, Start Num: 61
Candidate Starts for Socotra_19:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286,

17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Sopespian_18 Start: 15733, Stop: 17430, Start Num: 61
Candidate Starts for Sopespian_18:
(Start: 60 @15730 has 10 MA's), (Start: 61 @15733 has 42 MA's), (93, 15943), (113, 16066), (120, 16117), (133, 16204), (135, 16213), (140, 16234), (144, 16249), (146, 16261), (157, 16339), (158, 16351), (164, 16378), (167, 16411), (172, 16444), (174, 16456), (182, 16498), (203, 16621), (217, 16693), (230, 16771), (231, 16786), (235, 16804), (243, 16861), (261, 16954), (267, 16990), (269, 17002), (270, 17008), (272, 17020), (273, 17029), (282, 17101), (283, 17104), (285, 17110), (286, 17122), (295, 17182), (303, 17227), (306, 17236), (314, 17269), (331, 17335),

Gene: Sparky_16 Start: 16144, Stop: 17859, Start Num: 52
Candidate Starts for Sparky_16:
(Start: 52 @16144 has 2 MA's), (56, 16153), (82, 16279), (91, 16357), (93, 16363), (94, 16366), (99, 16399), (107, 16447), (108, 16453), (118, 16519), (122, 16552), (125, 16570), (143, 16666), (161, 16780), (169, 16837), (172, 16855), (178, 16891), (194, 16972), (196, 16981), (207, 17059), (213, 17095), (229, 17185), (242, 17260), (264, 17386), (278, 17476), (291, 17578), (320, 17707), (330, 17749), (332, 17776), (337, 17803), (339, 17815), (340, 17818), (343, 17842),

Gene: StAB_17 Start: 16311, Stop: 18008, Start Num: 44
Candidate Starts for StAB_17:
(Start: 44 @16311 has 4 MA's), (51, 16332), (72, 16416), (77, 16443), (78, 16449), (97, 16581), (108, 16632), (113, 16665), (117, 16689), (134, 16809), (142, 16842), (146, 16860), (154, 16914), (161, 16959), (169, 17016), (171, 17028), (177, 17067), (192, 17127), (195, 17148), (197, 17157), (205, 17214), (219, 17304), (238, 17412), (248, 17466), (250, 17472), (253, 17490), (270, 17586), (273, 17607), (279, 17652), (305, 17811), (309, 17826), (313, 17841), (317, 17853), (343, 17997),

Gene: Starburst_19 Start: 15729, Stop: 17429, Start Num: 60
Candidate Starts for Starburst_19:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (114, 16074), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: SteamedHams_20 Start: 15398, Stop: 17095, Start Num: 61
Candidate Starts for SteamedHams_20:
(Start: 60 @15395 has 10 MA's), (Start: 61 @15398 has 42 MA's), (79, 15500), (80, 15512), (93, 15608), (107, 15692), (120, 15782), (131, 15842), (133, 15869), (140, 15899), (141, 15902), (152, 15971), (157, 16004), (158, 16016), (159, 16019), (163, 16040), (164, 16043), (172, 16109), (174, 16121), (203, 16286), (230, 16436), (231, 16451), (235, 16469), (243, 16526), (269, 16667), (270, 16673), (272, 16685), (273, 16694), (282, 16766), (283, 16769), (285, 16775), (286, 16787), (303, 16892), (306, 16901), (314, 16934),

Gene: Stiles_17 Start: 16089, Stop: 17786, Start Num: 44
Candidate Starts for Stiles_17:
(Start: 44 @16089 has 4 MA's), (51, 16110), (72, 16194), (77, 16221), (78, 16227), (97, 16359), (108, 16410), (113, 16443), (117, 16467), (134, 16587), (142, 16620), (146, 16638), (154, 16692), (161, 16737), (169, 16794), (171, 16806), (177, 16845), (192, 16905), (195, 16926), (197, 16935), (205, 16992), (219, 17082), (238, 17190), (248, 17244), (250, 17250), (253, 17268), (270, 17364), (273, 17385), (279, 17430), (305, 17589), (309, 17604), (313, 17619), (317, 17631), (343, 17775),

Gene: SummitAcademy_17 Start: 15495, Stop: 17189, Start Num: 61
Candidate Starts for SummitAcademy_17:
(Start: 60 @15492 has 10 MA's), (Start: 61 @15495 has 42 MA's), (79, 15594), (85, 15636), (120, 15876), (133, 15963), (138, 15984), (140, 15993), (146, 16020), (152, 16065), (157, 16098), (159, 16113), (164, 16137), (167, 16170), (172, 16203), (174, 16215), (183, 16272), (193, 16320), (198, 16350), (203, 16380), (206, 16395), (214, 16443), (221, 16494), (230, 16530), (231, 16545), (235, 16563), (243, 16620), (245, 16629), (267, 16749), (269, 16761), (276, 16809), (282, 16860), (283, 16863), (286, 16881), (299, 16959), (303, 16986), (314, 17028), (342, 17175), (343, 17181),

Gene: SweatNTears_20 Start: 15891, Stop: 17588, Start Num: 61
Candidate Starts for SweatNTears_20:
(Start: 50 @15861 has 8 MA's), (Start: 60 @15888 has 10 MA's), (Start: 61 @15891 has 42 MA's), (93, 16101), (119, 16269), (120, 16275), (138, 16383), (146, 16419), (151, 16449), (152, 16464), (157, 16497), (158, 16509), (165, 16545), (172, 16602), (174, 16614), (197, 16734), (200, 16755), (203, 16779), (230, 16929), (231, 16944), (235, 16962), (243, 17019), (267, 17148), (269, 17160), (272, 17178), (273, 17187), (282, 17259), (283, 17262), (285, 17268), (286, 17280), (303, 17385), (306, 17394), (314, 17427), (339, 17553),

Gene: Syleon_28 Start: 21873, Stop: 23624, Start Num: 50
Candidate Starts for Syleon_28:
(45, 21858), (Start: 50 @21873 has 8 MA's), (58, 21894), (59, 21897), (68, 21954), (74, 21975), (75, 21981), (80, 22008), (84, 22026), (86, 22035), (87, 22038), (92, 22098), (104, 22173), (109, 22194), (112, 22233), (133, 22377), (147, 22437), (148, 22443), (150, 22458), (155, 22497), (166, 22566), (167, 22575), (169, 22590), (170, 22599), (175, 22623), (178, 22644), (188, 22698), (192, 22716), (203, 22797), (205, 22809), (210, 22833), (229, 22947), (246, 23055), (252, 23079), (257, 23106), (264, 23151), (275, 23226), (276, 23232), (285, 23292), (292, 23343), (297, 23379), (308, 23430), (310, 23436), (318, 23460), (326, 23499), (330, 23514), (332, 23541), (338, 23571), (340, 23583), (345, 23613),

Gene: Tarnish_18 Start: 15785, Stop: 17479, Start Num: 61
Candidate Starts for Tarnish_18:
(Start: 60 @15782 has 10 MA's), (Start: 61 @15785 has 42 MA's), (79, 15884), (85, 15926), (104, 16064), (120, 16166), (133, 16253), (140, 16283), (146, 16310), (152, 16355), (157, 16388), (159, 16403), (164, 16427), (167, 16460), (172, 16493), (174, 16505), (183, 16562), (190, 16592), (193, 16610), (198, 16640), (203, 16670), (214, 16733), (221, 16784), (230, 16820), (231, 16835), (235, 16853), (243, 16910), (267, 17039), (269, 17051), (282, 17150), (283, 17153), (286, 17171), (299, 17249), (303, 17276), (314, 17318), (342, 17465), (343, 17471),

Gene: Tesla_49 Start: 27023, Stop: 28735, Start Num: 55
Candidate Starts for Tesla_49:
(38, 26960), (Start: 55 @27023 has 27 MA's), (71, 27104), (82, 27161), (92, 27242), (94, 27248), (103, 27305), (104, 27317), (107, 27329), (113, 27368), (115, 27383), (125, 27452), (133, 27506), (135, 27515), (162, 27671), (169, 27719), (170, 27728), (172, 27737), (179, 27776), (182, 27791), (194, 27854), (197, 27866), (215, 27983), (216, 27986), (222, 28037), (227, 28064), (229, 28067), (232, 28088), (238, 28130), (260, 28250), (264, 28268), (285, 28412), (290, 28457), (293, 28475), (310, 28559), (312, 28568), (320, 28586), (323, 28607), (332, 28652), (333, 28658), (335, 28670), (338, 28682), (341, 28703), (343, 28718), (345, 28724),

Gene: Tolls_20 Start: 15401, Stop: 17098, Start Num: 61
Candidate Starts for Tolls_20:
(Start: 60 @15398 has 10 MA's), (Start: 61 @15401 has 42 MA's), (79, 15503), (80, 15515), (93, 15611), (107, 15695), (120, 15785), (131, 15845), (133, 15872), (140, 15902), (141, 15905), (152, 15974), (157, 16007), (158, 16019), (159, 16022), (163, 16043), (164, 16046), (172, 16112), (174,

16124), (203, 16289), (230, 16439), (231, 16454), (235, 16472), (243, 16529), (269, 16670), (270, 16676), (272, 16688), (273, 16697), (282, 16769), (283, 16772), (285, 16778), (286, 16790), (303, 16895), (306, 16904), (314, 16937),

Gene: Tourach_18 Start: 16987, Stop: 18720, Start Num: 54
Candidate Starts for Tourach_18:
(Start: 54 @16987 has 32 MA's), (68, 17056), (91, 17197), (92, 17200), (97, 17230), (100, 17245), (105, 17278), (112, 17323), (120, 17377), (124, 17404), (126, 17416), (133, 17467), (134, 17473), (142, 17506), (166, 17659), (169, 17683), (170, 17692), (178, 17737), (187, 17788), (212, 17950), (222, 18013), (236, 18085), (242, 18121), (259, 18220), (262, 18241), (264, 18247), (266, 18259), (275, 18322), (287, 18409), (290, 18436), (292, 18442), (296, 18469), (298, 18481), (302, 18505), (307, 18520), (316, 18556), (332, 18634), (335, 18652),

Gene: TpudiCK_29 Start: 22325, Stop: 24103, Start Num: 36
Candidate Starts for TpudiCK_29:
(22, 22145), (Start: 36 @22325 has 3 MA's), (Start: 39 @22340 has 2 MA's), (Start: 47 @22367 has 16 MA's), (Start: 55 @22382 has 27 MA's), (64, 22421), (68, 22451), (70, 22457), (73, 22469), (90, 22574), (91, 22589), (98, 22628), (118, 22751), (119, 22760), (133, 22856), (143, 22898), (144, 22901), (169, 23078), (189, 23189), (194, 23216), (204, 23288), (205, 23297), (206, 23300), (208, 23312), (228, 23432), (229, 23435), (236, 23477), (240, 23507), (242, 23513), (262, 23633), (264, 23639), (328, 23993), (332, 24020), (335, 24038), (337, 24047),

Gene: Trax_28 Start: 23606, Stop: 25348, Start Num: 50
Candidate Starts for Trax_28:
(33, 23528), (45, 23591), (Start: 50 @23606 has 8 MA's), (58, 23618), (62, 23636), (68, 23678), (75, 23705), (87, 23762), (92, 23822), (104, 23897), (105, 23900), (107, 23909), (109, 23918), (112, 23957), (113, 23960), (121, 24014), (123, 24035), (130, 24071), (133, 24101), (147, 24161), (148, 24167), (155, 24221), (166, 24290), (167, 24299), (169, 24314), (188, 24422), (191, 24428), (210, 24554), (223, 24647), (229, 24668), (230, 24671), (241, 24743), (246, 24776), (251, 24797), (262, 24866), (264, 24872), (265, 24881), (281, 24998), (282, 25007), (292, 25067), (297, 25103), (300, 25118), (308, 25154), (310, 25160), (326, 25223), (332, 25265), (337, 25292), (340, 25307), (345, 25337),

Gene: TriFive_19 Start: 17373, Stop: 19136, Start Num: 41
Candidate Starts for TriFive_19:
(Start: 41 @17373 has 43 MA's), (49, 17400), (65, 17463), (75, 17511), (76, 17517), (83, 17553), (92, 17628), (96, 17652), (97, 17658), (107, 17715), (124, 17829), (126, 17841), (147, 17952), (168, 18096), (169, 18108), (175, 18141), (207, 18330), (209, 18336), (218, 18393), (223, 18435), (224, 18444), (229, 18456), (241, 18531), (254, 18600), (256, 18612), (264, 18660), (274, 18726), (285, 18804), (290, 18849), (300, 18906), (316, 18969), (322, 19005), (328, 19020), (332, 19050), (333, 19056), (335, 19068), (337, 19077), (339, 19089),

Gene: Troje_18 Start: 15362, Stop: 17059, Start Num: 61
Candidate Starts for Troje_18:
(Start: 50 @15332 has 8 MA's), (Start: 60 @15359 has 10 MA's), (Start: 61 @15362 has 42 MA's), (93, 15572), (119, 15740), (120, 15746), (138, 15854), (146, 15890), (151, 15920), (152, 15935), (157, 15968), (158, 15980), (165, 16016), (172, 16073), (174, 16085), (197, 16205), (200, 16226), (203, 16250), (230, 16400), (231, 16415), (235, 16433), (243, 16490), (267, 16619), (269, 16631), (272, 16649), (273, 16658), (282, 16730), (283, 16733), (285, 16739), (286, 16751), (303, 16856), (306, 16865), (314, 16898), (339, 17024),

Gene: TyDawg_28 Start: 22368, Stop: 24104, Start Num: 47
Candidate Starts for TyDawg_28:

(22, 22146), (Start: 36 @22326 has 3 MA's), (Start: 39 @22341 has 2 MA's), (Start: 47 @22368 has 16 MA's), (Start: 55 @22383 has 27 MA's), (64, 22422), (68, 22452), (70, 22458), (73, 22470), (90, 22575), (91, 22590), (98, 22629), (118, 22752), (119, 22761), (133, 22857), (143, 22899), (144, 22902), (169, 23079), (189, 23190), (194, 23217), (204, 23289), (205, 23298), (206, 23301), (208, 23313), (228, 23433), (229, 23436), (236, 23478), (240, 23508), (242, 23514), (262, 23634), (264, 23640), (328, 23994), (332, 24021), (335, 24039), (337, 24048),

Gene: Typhonomachy_18 Start: 15732, Stop: 17429, Start Num: 61
Candidate Starts for Typhonomachy_18:
(Start: 60 @15729 has 10 MA's), (Start: 61 @15732 has 42 MA's), (93, 15942), (113, 16065), (120, 16116), (133, 16203), (135, 16212), (140, 16233), (144, 16248), (146, 16260), (157, 16338), (158, 16350), (164, 16377), (167, 16410), (172, 16443), (174, 16455), (182, 16497), (203, 16620), (217, 16692), (230, 16770), (231, 16785), (235, 16803), (243, 16860), (261, 16953), (267, 16989), (269, 17001), (270, 17007), (272, 17019), (273, 17028), (282, 17100), (283, 17103), (285, 17109), (286, 17121), (295, 17181), (303, 17226), (306, 17235), (314, 17268), (331, 17334),

Gene: Tyson_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for Tyson_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: UPIE_18 Start: 16744, Stop: 18513, Start Num: 41
Candidate Starts for UPIE_18:
(Start: 31 @16681 has 1 MA's), (34, 16702), (35, 16717), (Start: 41 @16744 has 43 MA's), (65, 16837), (75, 16885), (76, 16891), (81, 16918), (82, 16921), (83, 16927), (91, 16999), (94, 17008), (97, 17032), (100, 17047), (104, 17077), (124, 17203), (125, 17212), (128, 17233), (132, 17248), (145, 17317), (151, 17353), (153, 17374), (164, 17443), (169, 17482), (194, 17620), (197, 17632), (207, 17707), (209, 17713), (211, 17731), (218, 17770), (222, 17803), (223, 17812), (224, 17821), (228, 17830), (229, 17833), (249, 17953), (256, 17989), (264, 18037), (266, 18049), (274, 18103), (287, 18199), (288, 18217), (289, 18223), (290, 18226), (296, 18259), (300, 18283), (316, 18346), (325, 18388), (332, 18427), (335, 18445), (339, 18466), (342, 18487),

Gene: Underpass_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for Underpass_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563), (332, 18641),

Gene: VasuNzinga_50 Start: 26580, Stop: 28292, Start Num: 55
Candidate Starts for VasuNzinga_50:
(38, 26517), (Start: 55 @26580 has 27 MA's), (71, 26661), (82, 26718), (92, 26799), (94, 26805), (103, 26862), (104, 26874), (107, 26886), (113, 26925), (115, 26940), (125, 27009), (133, 27063), (135, 27072), (162, 27228), (169, 27276), (170, 27285), (172, 27294), (179, 27333), (182, 27348), (194, 27411), (197, 27423), (215, 27540), (216, 27543), (222, 27594), (227, 27621), (229, 27624), (232,

27645), (238, 27687), (260, 27807), (264, 27825), (285, 27969), (290, 28014), (293, 28032), (310, 28116), (312, 28125), (320, 28143), (323, 28164), (332, 28209), (333, 28215), (335, 28227), (338, 28239), (340, 28251), (343, 28275), (345, 28281),

Gene: Vetrix_18 Start: 16995, Stop: 18728, Start Num: 54
Candidate Starts for Vetrix_18:
(Start: 54 @16995 has 32 MA's), (68, 17064), (91, 17205), (92, 17208), (100, 17253), (105, 17286), (107, 17295), (112, 17331), (120, 17385), (124, 17412), (126, 17424), (133, 17475), (134, 17481), (142, 17514), (166, 17667), (169, 17691), (170, 17700), (178, 17745), (181, 17760), (194, 17838), (212, 17958), (222, 18021), (236, 18093), (242, 18129), (262, 18249), (264, 18255), (266, 18267), (275, 18330), (281, 18381), (287, 18417), (290, 18444), (302, 18513), (307, 18528), (308, 18540), (316, 18564), (332, 18642),

Gene: Vine_19 Start: 16430, Stop: 18124, Start Num: 61
Candidate Starts for Vine_19:
(Start: 60 @16427 has 10 MA's), (Start: 61 @16430 has 42 MA's), (79, 16529), (85, 16571), (120, 16811), (133, 16898), (138, 16919), (140, 16928), (146, 16955), (152, 17000), (157, 17033), (159, 17048), (164, 17072), (167, 17105), (172, 17138), (174, 17150), (183, 17207), (193, 17255), (198, 17285), (203, 17315), (206, 17330), (214, 17378), (221, 17429), (230, 17465), (231, 17480), (235, 17498), (243, 17555), (245, 17564), (267, 17684), (269, 17696), (276, 17744), (282, 17795), (283, 17798), (286, 17816), (299, 17894), (303, 17921), (314, 17963), (342, 18110), (343, 18116),

Gene: Wamburgrxpress_18 Start: 16759, Stop: 18528, Start Num: 41
Candidate Starts for Wamburgrxpress_18:
(Start: 31 @16696 has 1 MA's), (34, 16717), (35, 16732), (Start: 41 @16759 has 43 MA's), (65, 16852), (75, 16900), (76, 16906), (81, 16933), (82, 16936), (83, 16942), (91, 17014), (94, 17023), (97, 17047), (100, 17062), (104, 17092), (124, 17218), (125, 17227), (128, 17248), (132, 17263), (145, 17332), (151, 17368), (153, 17389), (164, 17458), (169, 17497), (194, 17635), (197, 17647), (207, 17722), (209, 17728), (211, 17746), (218, 17785), (222, 17818), (223, 17827), (224, 17836), (228, 17845), (249, 17968), (256, 18004), (264, 18052), (266, 18064), (274, 18118), (287, 18214), (288, 18232), (289, 18238), (290, 18241), (296, 18274), (300, 18298), (316, 18361), (325, 18403), (332, 18442), (335, 18460), (339, 18481), (342, 18502),

Gene: Whirlwind_20 Start: 17130, Stop: 18893, Start Num: 41
Candidate Starts for Whirlwind_20:
(Start: 41 @17130 has 43 MA's), (49, 17157), (65, 17220), (76, 17274), (83, 17310), (92, 17385), (97, 17415), (100, 17430), (107, 17472), (124, 17586), (126, 17598), (147, 17709), (168, 17853), (169, 17865), (207, 18087), (209, 18093), (218, 18150), (223, 18192), (224, 18201), (229, 18213), (241, 18288), (253, 18354), (256, 18369), (264, 18417), (274, 18483), (285, 18561), (290, 18606), (300, 18663), (316, 18726), (322, 18762), (328, 18777), (332, 18807), (333, 18813), (335, 18825), (337, 18834), (339, 18846),

Gene: Whitty_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for Whitty_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343, 18669), (345, 18675),

Gene: Wigglewiggle_18 Start: 17021, Stop: 18754, Start Num: 54
Candidate Starts for Wigglewiggle_18:
(Start: 54 @17021 has 32 MA's), (68, 17090), (91, 17231), (92, 17234), (100, 17279), (105, 17312), (107, 17321), (112, 17357), (120, 17411), (124, 17438), (126, 17450), (133, 17501), (134, 17507),

(142, 17540), (166, 17693), (169, 17717), (170, 17726), (178, 17771), (181, 17786), (194, 17864), (212, 17984), (222, 18047), (236, 18119), (242, 18155), (262, 18275), (264, 18281), (266, 18293), (275, 18356), (287, 18443), (290, 18470), (302, 18539), (307, 18554), (308, 18566), (316, 18590), (332, 18668),

Gene: Wildcat_40 Start: 25260, Stop: 27644, Start Num: 1
Candidate Starts for Wildcat_40:
(Start: 1 @25260 has 5 MA's), (5, 25377), (6, 25398), (7, 25401), (8, 25431), (9, 25437), (10, 25446), (15, 25536), (16, 25572), (17, 25590), (19, 25617), (20, 25629), (22, 25638), (24, 25701), (25, 25737), (27, 25773), (28, 25776), (30, 25782), (43, 25854), (53, 25884), (67, 25953), (68, 25956), (81, 26043), (85, 26061), (86, 26064), (91, 26124), (98, 26163), (105, 26205), (107, 26214), (108, 26220), (111, 26235), (112, 26250), (119, 26298), (133, 26394), (143, 26436), (144, 26439), (169, 26616), (172, 26634), (175, 26649), (176, 26664), (181, 26685), (186, 26718), (189, 26727), (193, 26757), (201, 26796), (205, 26838), (207, 26850), (208, 26853), (218, 26913), (228, 26973), (236, 27018), (242, 27054), (254, 27120), (262, 27174), (264, 27180), (274, 27246), (298, 27417), (304, 27441), (332, 27561), (336, 27582), (338, 27591), (343, 27627),

Gene: Wilder_18 Start: 16994, Stop: 18727, Start Num: 54
Candidate Starts for Wilder_18:
(Start: 54 @16994 has 32 MA's), (68, 17063), (91, 17204), (92, 17207), (100, 17252), (105, 17285), (107, 17294), (112, 17330), (120, 17384), (124, 17411), (126, 17423), (133, 17474), (134, 17480), (142, 17513), (166, 17666), (169, 17690), (170, 17699), (178, 17744), (181, 17759), (194, 17837), (212, 17957), (222, 18020), (236, 18092), (242, 18128), (262, 18248), (264, 18254), (266, 18266), (275, 18329), (287, 18416), (290, 18443), (302, 18512), (307, 18527), (308, 18539), (316, 18563), (332, 18641),

Gene: Winky_18 Start: 16989, Stop: 18722, Start Num: 54
Candidate Starts for Winky_18:
(Start: 54 @16989 has 32 MA's), (68, 17058), (91, 17199), (92, 17202), (100, 17247), (105, 17280), (107, 17289), (112, 17325), (120, 17379), (124, 17406), (126, 17418), (133, 17469), (134, 17475), (142, 17508), (166, 17661), (169, 17685), (170, 17694), (178, 17739), (181, 17754), (194, 17832), (212, 17952), (222, 18015), (236, 18087), (242, 18123), (262, 18243), (264, 18249), (266, 18261), (275, 18324), (287, 18411), (290, 18438), (302, 18507), (307, 18522), (308, 18534), (316, 18558), (332, 18636),

Gene: Wyatt2_18 Start: 16746, Stop: 18515, Start Num: 41
Candidate Starts for Wyatt2_18:
(Start: 31 @16683 has 1 MA's), (34, 16704), (35, 16719), (Start: 41 @16746 has 43 MA's), (65, 16839), (75, 16887), (76, 16893), (81, 16920), (82, 16923), (83, 16929), (91, 17001), (94, 17010), (97, 17034), (100, 17049), (104, 17079), (124, 17205), (125, 17214), (128, 17235), (132, 17250), (145, 17319), (151, 17355), (153, 17376), (164, 17445), (169, 17484), (194, 17622), (197, 17634), (207, 17709), (209, 17715), (211, 17733), (218, 17772), (222, 17805), (223, 17814), (224, 17823), (228, 17832), (229, 17835), (249, 17955), (256, 17991), (264, 18039), (266, 18051), (274, 18105), (287, 18201), (288, 18219), (289, 18225), (290, 18228), (296, 18261), (300, 18285), (316, 18348), (325, 18390), (332, 18429), (335, 18447), (339, 18468), (342, 18489),

Gene: Yarn_17 Start: 15391, Stop: 17088, Start Num: 61
Candidate Starts for Yarn_17:
(Start: 60 @15388 has 10 MA's), (Start: 61 @15391 has 42 MA's), (79, 15493), (80, 15505), (93, 15601), (107, 15685), (120, 15775), (131, 15835), (133, 15862), (140, 15892), (141, 15895), (152, 15964), (157, 15997), (158, 16009), (159, 16012), (163, 16033), (164, 16036), (172, 16102), (174, 16114), (203, 16279), (230, 16429), (231, 16444), (235, 16462), (243, 16519), (269, 16660), (270, 16666), (272, 16678), (273, 16687), (282, 16759), (283, 16762), (285, 16768), (286, 16780), (303,

16885), (306, 16894), (314, 16927),

Gene: Yucky_18 Start: 16290, Stop: 17984, Start Num: 61
Candidate Starts for Yucky_18:
(Start: 60 @16287 has 10 MA's), (Start: 61 @16290 has 42 MA's), (79, 16389), (85, 16431), (120, 16671), (133, 16758), (138, 16779), (140, 16788), (146, 16815), (152, 16860), (157, 16893), (159, 16908), (164, 16932), (167, 16965), (172, 16998), (174, 17010), (183, 17067), (190, 17097), (193, 17115), (198, 17145), (203, 17175), (214, 17238), (221, 17289), (230, 17325), (231, 17340), (235, 17358), (243, 17415), (245, 17424), (267, 17544), (269, 17556), (276, 17604), (282, 17655), (283, 17658), (286, 17676), (299, 17754), (303, 17781), (314, 17823), (342, 17970), (343, 17976),

Gene: Yummy_19 Start: 15276, Stop: 16973, Start Num: 61
Candidate Starts for Yummy_19:
(Start: 50 @15246 has 8 MA's), (Start: 60 @15273 has 10 MA's), (Start: 61 @15276 has 42 MA's), (93, 15486), (119, 15654), (120, 15660), (138, 15768), (146, 15804), (151, 15834), (152, 15849), (157, 15882), (158, 15894), (165, 15930), (172, 15987), (174, 15999), (197, 16119), (200, 16140), (203, 16164), (230, 16314), (231, 16329), (235, 16347), (243, 16404), (267, 16533), (269, 16545), (272, 16563), (273, 16572), (282, 16644), (283, 16647), (285, 16653), (286, 16665), (303, 16770), (306, 16779), (314, 16812), (339, 16938),

Gene: Zakai_18 Start: 16983, Stop: 18716, Start Num: 54
Candidate Starts for Zakai_18:
(Start: 54 @16983 has 32 MA's), (68, 17052), (91, 17193), (92, 17196), (100, 17241), (105, 17274), (107, 17283), (112, 17319), (120, 17373), (124, 17400), (126, 17412), (133, 17463), (134, 17469), (142, 17502), (166, 17655), (169, 17679), (170, 17688), (178, 17733), (181, 17748), (194, 17826), (212, 17946), (222, 18009), (236, 18081), (242, 18117), (262, 18237), (264, 18243), (266, 18255), (275, 18318), (281, 18369), (287, 18405), (290, 18432), (302, 18501), (307, 18516), (308, 18528), (316, 18552), (332, 18630),

Gene: Zaria_18 Start: 16760, Stop: 18529, Start Num: 41
Candidate Starts for Zaria_18:
(Start: 31 @16697 has 1 MA's), (34, 16718), (35, 16733), (Start: 41 @16760 has 43 MA's), (65, 16853), (75, 16901), (76, 16907), (81, 16934), (82, 16937), (83, 16943), (91, 17015), (94, 17024), (97, 17048), (100, 17063), (104, 17093), (124, 17219), (125, 17228), (128, 17249), (132, 17264), (145, 17333), (151, 17369), (153, 17390), (164, 17459), (169, 17498), (194, 17636), (197, 17648), (207, 17723), (209, 17729), (211, 17747), (218, 17786), (222, 17819), (223, 17828), (224, 17837), (228, 17846), (249, 17969), (256, 18005), (264, 18053), (266, 18065), (274, 18119), (287, 18215), (288, 18233), (289, 18239), (290, 18242), (296, 18275), (300, 18299), (316, 18362), (325, 18404), (332, 18443), (335, 18461), (339, 18482), (342, 18503),

Gene: ZenTime222_19 Start: 16980, Stop: 18686, Start Num: 55
Candidate Starts for ZenTime222_19:
(29, 16872), (32, 16884), (Start: 55 @16980 has 27 MA's), (68, 17046), (85, 17121), (87, 17127), (96, 17211), (105, 17265), (112, 17310), (113, 17313), (122, 17379), (169, 17664), (207, 17886), (238, 18075), (264, 18213), (266, 18225), (290, 18402), (296, 18438), (332, 18603), (337, 18630), (343, 18669), (345, 18675),

Gene: ZhongYanYuan_17 Start: 16814, Stop: 18547, Start Num: 54
Candidate Starts for ZhongYanYuan_17:
(Start: 54 @16814 has 32 MA's), (68, 16883), (91, 17024), (92, 17027), (97, 17057), (100, 17072), (105, 17105), (112, 17150), (120, 17204), (124, 17231), (126, 17243), (133, 17294), (134, 17300), (142, 17333), (166, 17486), (169, 17510), (170, 17519), (178, 17564), (187, 17615), (203, 17720), (212, 17777), (222, 17840), (236, 17912), (242, 17948), (259, 18047), (262, 18068), (264, 18074),

(266, 18086), (275, 18149), (287, 18236), (290, 18263), (296, 18296), (307, 18347), (308, 18359), (316, 18383), (332, 18461), (335, 18479),